Appendix A

Notice of Preparation (NOP), Initial Study, and NOP Comments

City of Downey

ORIGINAL FILED

MAR 29 2022

LOS ANGELES, COUNTY CLERK

Date: March 25, 2022
To: Interested Agencies and Organizations
From: City of Downey

SUBJECT: NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT (EIR) AND NOTICE OF EIR SCOPING MEETING

Lead Agency:	City of Downey	**Contact:**	Alfonso Hernandez
Street Address:	11111 Brookshire Avenue	**Phone:**	(562) 904-7154
City/State/Zip:	Downey, CA 90241	**Email:**	ashernandez@downeyca.org

The **CITY OF DOWNEY** is the Lead Agency and will prepare an environmental impact report (EIR) for the project identified below. This Notice of Preparation (NOP) is issued to inform trustees and responsible agencies, as well as the public, of the decision to undertake preparation of an EIR. The purpose of this NOP is to describe the Proposed Project and its potential environmental effects to those who may wish to comment about the scope and content of the information to be considered in the EIR. Agencies should comment on such information as it relates to their statutory responsibilities in connection with the Proposed Project.

The project's description, location, and potential environmental effects are contained in the attached materials. A copy of the Initial Study Checklist (☒ is ☐ is not) attached.

Agencies and the public are invited to provide comments on the scope and content of the environmental review, the potential mitigation strategies, and the Project alternatives by 5:30 p.m. on Thursday, ***April 27, 2022***.

Please send your response to Alfonso Hernandez at the address shown above. You must provide name, agency (if applicable), and contact information.

Project Title:	Prologis Stewart & Gray Road Warehouse Project
Project Applicant:	City of Downey
Project Location:	9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart and Gray Road, City of Downey, County of Los Angeles

Scoping Meeting: A scoping meeting will be held on Monday, April, 18 2022 at 6:00 p.m. The meeting is an opportunity for the public and agencies to provide input on specific topics they believe should be addressed in the environmental analysis. The meeting will be held inside the City Council Chamber located at 11111 Brookshire Ave., Downey CA 90241.

Project Description: The proposed Project would include the demolition of the existing five buildings (totaling approximately 433,000 square feet) and the construction of an approximately 510,110 square foot (sf) industrial concrete tilt-up building for warehouse/logistics uses, and a 25,000-sf ancillary truck workshop facility, together

totaling 535,110 square feet. The Project would include 614 auto parking spaces, 215 trailer and/or container parking spaces and 109 dock loading doors. The warehouse building would have a 40-foot interior clear height.

The new industrial building is intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The facility will also include an office and mezzanine area. On-site activities will include the following: general industrial/warehouse with refrigeration and cold storage component for the purposes of receiving, storing, shipping of food and/or beverage products, storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery. The office space is intended to be used for office uses ancillary to the warehouse operations. The 25,000-sf truck workshop building would be ancillary to the warehouse/distribution/logistics operation for purposes of maintaining a truck or van fleet, trailers, and associated equipment operating the facility. The proposed facility is intended to operate 24 hours a day, 7 days a week.

The main proposed industrial building would reach a maximum height of 55 feet above grade. The building would include concrete tilt up panels on all sides of the building. The southeast and/or southwest side of the building would be the entrance to the office component and would include glazed windows, metal side paneling, enhanced exterior building materials and building modulation. All exterior and interior glazing would be tempered with vision glass and spandrel glass at the main entryways and around the perimeter of the building. In addition, the Project would include enhanced exterior building materials, landscaping totaling 10.2 percent of the site area, and a perimeter screen wall.

Date: March 25, 2022

Signature:

Alfonso Hernandez
Title: Senior Planner
Telephone: (562) 904-7154

Project Location

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

BUSINESS FILINGS REGISTRATION

NORWALK DEPARTMENT HEADQUARTER

Cashier: C. CHEN

Tuesday, March 29, 2022 10:18 AM

Item(s)

Fee	Qty	Total
NoP - County Posting Fee 2022067022	1	$0.00

Total **$0.00**

Total Documents: 1

Customer payment(s):

City of Downey

Date: April 22, 2022
To: Interested Agencies and Organizations
From: City of Downey

SUBJECT: COMMENT DATE EXTENDED - NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT (EIR) AND NOTICE OF EIR SCOPING MEETING

Lead Agency:	City of Downey	**Contact:**	Alfonso Hernandez
Street Address:	11111 Brookshire Avenue	**Phone:**	(562) 904-7154
City/State/Zip:	Downey, CA 90241	**Email:**	ashernandez@downeyca.org

The **CITY OF DOWNEY** is the Lead Agency and will prepare an environmental impact report (EIR) for the project identified below. This Notice of Preparation (NOP) is issued to inform trustees and responsible agencies, as well as the public, of the decision to undertake preparation of an EIR. The purpose of this NOP is to describe the Proposed Project and its potential environmental effects to those who may wish to comment about the scope and content of the information to be considered in the EIR. Agencies should comment on such information as it relates to their statutory responsibilities in connection with the Proposed Project.

The project's description, location, and potential environmental effects are contained in the attached materials. A copy of the Initial Study Checklist (☒ is ☐ is not) attached. A digital version can be found at: https://www.downeyca.org/home/showpublisheddocument/6538/637841577791930000

Agencies and the public are invited to provide comments on the scope and content of the environmental review, the potential mitigation strategies, and the Project alternatives by 5:30 p.m. on Thursday, ***May 20, 2022***.

Please send your response to Alfonso Hernandez at the address shown above. You must provide name, agency (if applicable), and contact information.

Project Title:	Prologis Stewart & Gray Road Warehouse Project
Project Applicant:	City of Downey
Project Location:	9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart and Gray Road, City of Downey, County of Los Angeles

Scoping Meeting: A scoping meeting was held on Monday, April, 18 2022 at 6:00 p.m. The meeting was an opportunity for the public and agencies to provide input on specific topics they believe should be addressed in the environmental analysis. The meeting was held inside the City Council Chamber located at 11111 Brookshire Ave., Downey CA 90241. If you were unable to attend the meeting please visit the City website to view the presentation slides at: https://www.downeyca.org/home/showpublisheddocument/6602/637862242958439482. For any additional information or an opportunity to provide comments verbally please contact Alfonso Hernandez by phone at (562) 904-7154. Written comment by mail and email are also welcomed.

Project Description: The proposed Project would include the demolition of the existing five buildings (totaling approximately 433,000 square feet) and the construction of an approximately 510,110 square foot (sf) industrial concrete tilt-up building for warehouse/logistics uses, and a 25,000-sf ancillary truck workshop facility, together totaling 535,110 square feet. The Project would include 614 auto parking spaces, 215 trailer and/or container parking spaces and 109 dock loading doors. The warehouse building would have a 40-foot interior clear height.

The new industrial building is intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The facility will also include an office and mezzanine area. On-site activities will include the following: general industrial/warehouse with refrigeration and cold storage component for the purposes of receiving, storing, shipping of food and/or beverage products, storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery. The office space is intended to be used for office uses ancillary to the warehouse operations. The 25,000-sf truck workshop building would be ancillary to the warehouse/distribution/logistics operation for purposes of maintaining a truck or van fleet, trailers, and associated equipment operating the facility. The proposed facility is intended to operate 24 hours a day, 7 days a week.

The main proposed industrial building would reach a maximum height of 55 feet above grade. The building would include concrete tilt up panels on all sides of the building. The southeast and/or southwest side of the building would be the entrance to the office component and would include glazed windows, metal side paneling, enhanced exterior building materials and building modulation. All exterior and interior glazing would be tempered with vision glass and spandrel glass at the main entryways and around the perimeter of the building. In addition, the Project would include enhanced exterior building materials, landscaping totaling 10.2 percent of the site area, and a perimeter screen wall.

Date: April 22, 2022

Signature:

Alfonso Hernandez
Title: Senior Planner
Telephone: (562) 904-7154

Project Location

Prologis Stewart and Gray Road Warehouse Project

Initial Study

March 2022 | 04967.00001.001

Submitted to:

City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Prepared for:

Prologis, Inc.
2141 Rosecrans Avenue
Suite 1151
El Segundo, CA 90245

Prepared by:

HELIX Environmental Planning, Inc.
16485 Laguna Canyon Road
Suite 150
Irvine, CA 92618

This page intentionally left blank

TABLE OF CONTENTS

Section			Page
1.0	**INTRODUCTION**		**1**
	1.1	Initial Study Information Sheet	1
	1.2	Environmental Factors Potentially Affected	1
	1.3	Determination	4
2.0	**ENVIRONMENTAL INITIAL STUDY CHECKLIST**		**5**
	I.	Aesthetics	6
	II.	Agriculture and Forestry Resources	7
	III.	Air Quality	9
	IV.	Biological Resources	11
	V.	Cultural Resources	13
	VI.	Energy	14
	VII.	Geology and Soils	15
	VIII.	Greenhouse Gas Emissions	18
	IX.	Hazards and Hazardous Materials	19
	X.	Hydrology and Water Quality	22
	XI.	Land Use and Planning	25
	XII.	Mineral Resources	26
	XIII.	Noise	26
	XIV.	Population and Housing	27
	XV.	Public Services	28
	XVI.	Recreation	30
	XVII.	Transportation	31
	XVIII.	Tribal Cultural Resources	32
	XIX.	Utilities and Service Systems	33
	XX.	Wildfire	35
	XXI.	Mandatory Findings of Significance	37
3.0	**REFERENCES**		**39**
4.0	**PREPARERS**		**41**

TABLE OF CONTENTS (cont.)

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	Aerial Photo	2
3	Site Plan	2

ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
ALUC	Airport Land Use Commission
ALUCP	Airport Land Use Compatibility Plan
amsl	above mean sea level
APZ	Accident Potential Zone
AQMP	Air Quality Management Plan
BMPs	best management practices
CAL FIRE	California Department of Forestry and Fire Protection
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CBC	California Building Code
CBMWD	Central Basin Municipal Water District
City	City of Downey
CIWMP	County Integrated Waste Management Plan
County	County of Los Angeles
CWA	Clean Water Act
DOC	California Department of Conservation
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EIC	Eastern Information Center
FEMA	Federal Emergency Management Agency
FHSZ	Fire Hazard Severity Zone
FMMP	Farmland Mapping and Monitoring Program
GHGs	greenhouse gases
GSP	Groundwater Sustainability Plan
HELIX	HELIX Environmental Planning, Inc.
HRA	Health Risk Assessment
IBC	International Building Code
ICC	International Code Council
LACSD	Los Angeles County Sanitation District
MHFP	Multi-Hazard Functional Plan
MLD	Most Likely Descendant
MRZ	mineral resource zone

ACRONYMS AND ABBREVIATIONS (cont.)

MWD	Metropolitan Water District of Southern California
NAHC	Native American Heritage Commission
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
OHP	Office of Historic Preservation
RWQCB	Regional Water Quality Control Board
SB	State Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SEA	Sensitive Ecological Area
sf	square foot/feet
SGMA	Sustainable Groundwater Management Act
SR	State Route
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TCR	Tribal Cultural Resource
UBC	Uniform Building Code
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
UWMP	Urban Water Management Plan
VHFHSZ	Very High Fire Hazard Severity Zone
WQMP	Water Quality Management Plan

1.0 Introduction

1.1 Initial Study Information Sheet

1.	Project title:	Prologis Stewart and Gray Road Warehouse Project
2.	Lead agency name and address:	City of Downey; 11111 Brookshire Avenue, Downey, CA 90241
3.	Contact person and phone number:	Alfonso Hernandez, Senior Planner (562) 904-7154
4.	Project location:	9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart and Gray Road, in Downey, CA
5.	Project sponsor's name and address:	Prologis, Inc.; 2141 Rosecrans Avenue, Suite 1151, El Segundo, CA 90245
6.	General plan designation:	GM – General Manufacturing
7.	Zoning:	M-2 – General Manufacturing Zone

8. Surrounding land uses and setting:

The Prologis Stewart and Gray Road Warehouse Project (Project) is located in the City of Downey (City), in Los Angeles County, at the northwest corner of the intersection of Stewart and Gray Road and Woodruff Ave (see Figure 1, *Regional Location,* and Figure 2, *Aerial Photograph*). The 29.16-acre Project site consists of five parcels (APN's: 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-017, and 6284-019-016), located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart and Gray Road. The Project site is currently improved with five industrial buildings located along Stewart and Gray Road to the south and Hall Road to the north, totaling approximately 433,000 square feet (sf).

The five existing industrial buildings and related improvements are currently utilized by the following industrial tenants: EJ Lauren (Furniture Manufacturing), 88 Logistics/88 Transportation (Biotechnology/ Pharmaceutical Logistics), Western Pacific Pulp & Paper (Paper Recycler), OmniTeam (Commercial Kitchen Manufacturer) and Duray (Commercial Kitchen Manufacturer). The existing improvements were likely developed in the mid-1970s. The Project site currently has two driveway entrances off Stewart and Gray Road and three driveway entrances off Hall Road that lead to private internal roads, which connect around the separate buildings. These internal roads provide parking for employees, parking for trailers and containers, recycling equipment and storage of heavy operation equipment.

The site is currently zoned M-2 (General Manufacturing Zone). The Project site has a General Plan Land Use Designation of GM (General Manufacturing). The Project site is bordered by industrial uses to the east, west and south, and commercial uses to the north. Residential uses are present further to the west and northwest but are buffered by other industrial sites bordering the Project site.

9. Description of project:

The proposed Project would include the demolition of the existing five buildings (totaling approximately 433,000 sf) and the construction of an approximately 510,110-sf industrial concrete tilt-up building for warehouse/logistics uses, and a 25,000-sf ancillary truck workshop facility, together totaling 535,110 sf (see Figure 3, *Site Plan*). The Project would include 614 auto parking spaces, 215 trailer and/or container parking spaces and 109 dock loading doors. The warehouse would have a 40-foot interior clear height and maximum building height of 55 feet above grade.

The new industrial building is intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The facility will also include an office and mezzanine area. On-site activities will include the following: general industrial/warehouse with refrigeration and cold storage component for the purposes of receiving, storing, shipping of food and/or beverage products, storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery. The office space is intended to be used for office uses ancillary to the warehouse operations. The 25,000-sf truck workshop building would be ancillary to the warehouse/distribution/logistics operation for purposes of maintaining a truck or van fleet, trailers, and associated equipment operating the facility. The proposed facility is intended to operate 24 hours a day, 7 days a week.

The building would include concrete tilt up panels on all sides of the building. The southeast and/or southwest side of the building would be the entrance to the office component and would include glazed windows, metal side paneling, enhanced exterior building materials and building modulation. All exterior and interior glazing would be tempered with vision glass and spandrel glass at the main entryways and around the perimeter of the building. In addition, the Project would include enhanced exterior building materials, landscaping totaling 10.2 percent of the site area, and a perimeter screen wall.

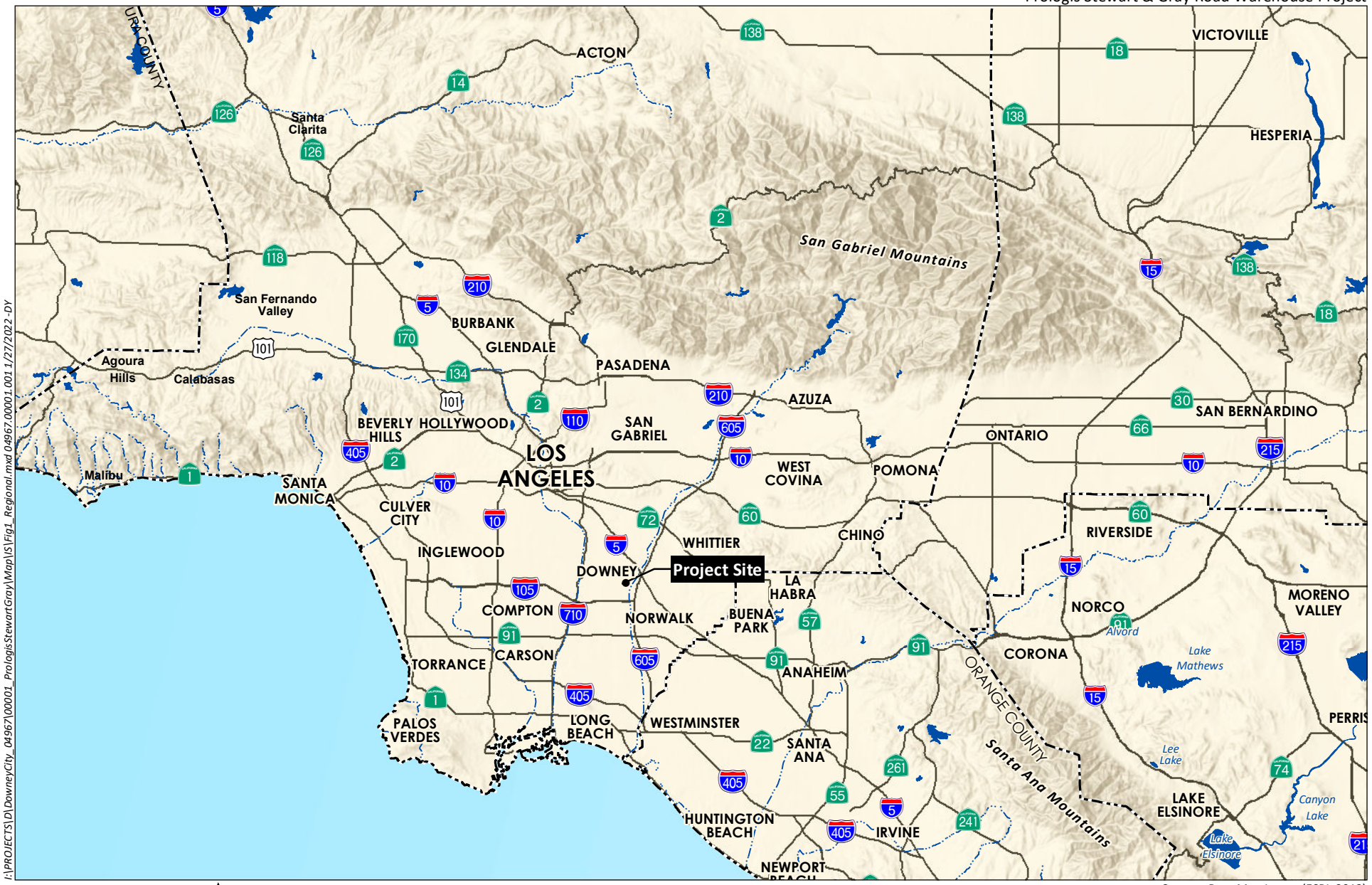
Construction of the Project would begin in Fall 2022 and would involve demolition and removal of all existing on-site structures, paving, and other improvements, which would occur for approximately five months. Following demolition and site preparation, construction of the proposed new buildings would begin in Spring 2023 and continue for approximately 10 months, with completion of the construction activities in late 2023.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement:

None

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

As part of the CEQA process, the City will solicit consultation requests from potentially affected tribal governments in the area pursuant to Assembly Bill (AB) 52.



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\S\Fig1_Regional.mxd 04967.00001.001 1/27/2022 - DY

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

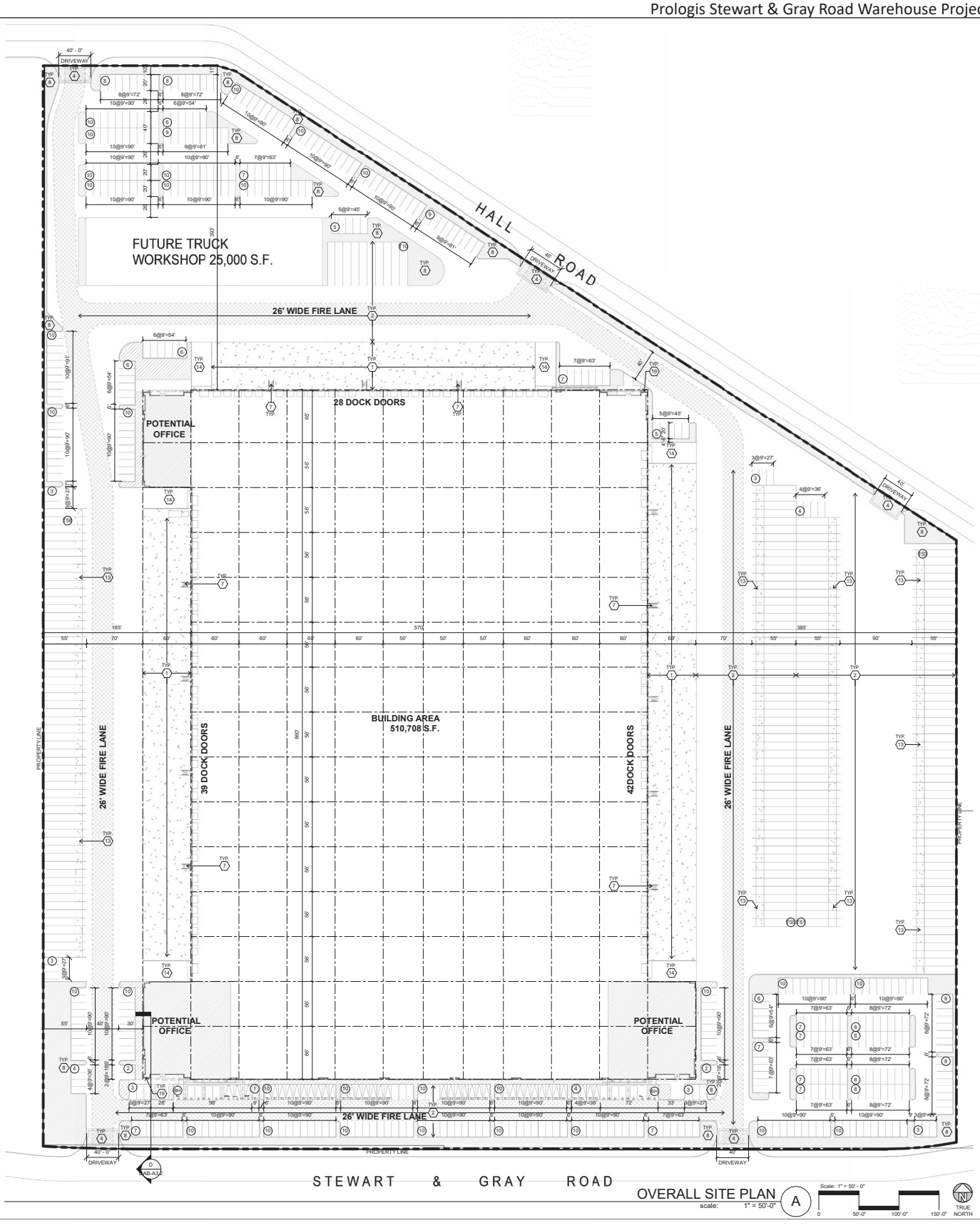
Figure 1

Source: Aerial (Maxar, 2020)

HELIX Environmental Planning

Aerial Photograph

Figure 2



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\S\Fig3_SitePlan.indd 04967.00001.001 01/27/2022 -DY

Source: HPA Architecture 2022

HELIX Environmental Planning

Site Plan

Figure 3

1.2 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" or "Less than Significant with Mitigation Incorporated" as indicated by the checklist on the following pages.

■ Aesthetics	☐ Agriculture and Forestry Resources	■ Air Quality
☐ Biological Resources	■ Cultural Resources	■ Energy
■ Geology and Soils	■ Greenhouse Gas Emissions	■ Hazards and Hazardous Materials
■ Hydrology and Water Quality	■ Land Use and Planning	☐ Mineral Resources
■ Noise	☐ Population and Housing	☐ Public Services
☐ Recreation	■ Transportation	■ Tribal Cultural Resources
☐ Utilities and Service Systems	☐ Wildfire	■ Mandatory Findings of Significance

1.3 Determination

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

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

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

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

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

Signature	Date: 3/23/22
Printed name: Alfonso S. Hernandez	For: City of Downey

2.0 Environmental Initial Study Checklist

The lead agency has defined the column headings in the environmental checklist as follows:

A. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

B. "Less Than Significant with Mitigation Incorporated" applies where the inclusion of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." All mitigation measures are described, including a brief explanation of how the measures reduce the effect to a less than significant level. Mitigation measures from earlier analyses may be cross-referenced.

C. "Less Than Significant Impact" applies where the project does not create an impact that exceeds a stated significance threshold.

D. "No Impact" applies where a project does not create an impact in that category. "No Impact" answers do not require an explanation if they are adequately supported by the information sources cited by the lead agency which show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project specific screening analysis).

I. Aesthetics

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Except as provided in Public Resources Code Section 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	■
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	■
c) Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	■	☐	☐	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	■	☐	☐	☐

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

No Impact. Scenic vistas are generally defined as public viewpoints that provide expansive or notable views of a highly valued landscape and are typically identified in planning documents, such as a general plan, but can also include locally known areas or locations where high-quality public views are available. The City's General Plan does not identify or otherwise designate scenic vistas or protected viewsheds (City 2005). The Project site is currently developed and surrounded by other industrial or commercial developments that prevent expansive views that could be considered scenic vistas. No impacts to scenic vistas would occur and no further analysis is required in the EIR.

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

No Impact. The Project site does not currently contain scenic resources such as trees, rock outcroppings, or historic buildings. There are no eligible or designated state scenic highways in the City or surrounding cities. Given that the Project site is not visible from an officially designated state scenic highway and no unique scenic resources exist on-site, the Project would not result in an impact to scenic resources within a state scenic highway. No impacts would occur, and no further analysis is required in the EIR.

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

Potentially Significant Impact. Public Resources Code 21071 defines the term "urbanized area" for the purpose of CEQA to mean an incorporated city that has a population of at least 100,000 persons or has a population of less than 100,000 persons if the population of that city and not more than two contiguous incorporated cities combined equals at least 100,000 persons. U.S. Bureau of the Census (U.S. Census Bureau) data from 2020 indicates that the City has a population of 114,355 and is therefore an urbanized area that should be evaluated relative to applicable zoning and other regulations governing scenic quality (U.S. Census Bureau 2020). The Project site parcels are zoned as M-2 (General Manufacturing Zone) and subject to the zoning regulations outlined in Municipal Code Section 9318.06.

The applicable Municipal Code sections include standards regulating building height, setbacks, landscaping, and other building components that address scenic quality. The proposed Project would comply with the setback, landscaping, and other development standards, but would exceed the 45-foot height limit for the zoning district. The Project aims to develop the Project site with buildings that will enhance the look and feel of this a dated manufacturing commercial corridor with both enhanced exterior building materials, landscaping treatments and a perimeter screen wall. However, given potential conflicts with existing zoning standards regarding building height and changes to the visual character of the site relative to existing conditions, impacts are potentially significant and will be further discussed in the EIR.

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

Potentially Significant Impact. The Project site is in a developed area surrounded primarily by commercial and industrial uses. The proposed building would include concrete tilt up panels on all sides and would include glazed windows. All exterior and interior glazing would be tempered with vision glass and spandrel glass at the main entryways and around the perimeter of the building. Section 9520.06 of the Municipal Code provides further specifics for outdoor lighting standards, such as height, direction, and intensities. The Project may create a new source of substantial light or glare that would adversely affect the area. Impacts are potentially significant and will be analyzed further in the EIR.

II. Agriculture and Forestry Resources

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	■

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	■
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	■
d)	Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	■
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non- forest use?	☐	☐	☐	■

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

No Impact. The Farmland Mapping and Monitoring Program (FMMP) is a statewide program that designates farmland among several categories, including Prime Farmland, Unique Farmland, and Farmland of Statewide Importance. The FMMP is maintained by the California Department of Conservation (DOC), the agency responsible for overseeing farmland classification throughout the state. According to the FMMP online mapping database, the Project site is classified as Urban and Built-Up Land (DOC 2018). Furthermore, the Project site is not used for agricultural production and would not convert existing farmland to a non-agricultural use. No impact would occur, and no further analysis is required in the EIR.

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

No Impact. The Williamson Act, also known as the California Land Conservation Act of 1965, enables local governments to enter into contracts with private landowners for the purpose of restricting specific parcels of land to agricultural or related open space use; in return, landowners receive property tax assessments which are much lower than normal because they are based upon farming and open space uses as opposed to full market value. The Williamson Act is only applicable to parcels within an established agricultural preserve consisting of at least 20 acres of Prime Farmland, or at least 40 acres of land not designated as Prime Farmland. As stated above, the Project site is already classified as Urban and Built-Up Land where no active farmland nor agricultural resources are present and would not be eligible for a Williamson Act contract. The Project would have no impact in relation to zoning for agricultural use or a Williamson Act contract, and no further analysis is required in the EIR.

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

No Impact. Public Resources Code Section 12220(g) defines "forest land" as land that can support 10 percent native 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. Based on this definition, no forest land occurs within or adjacent to the Project site. There is no concentration of trees within the site that would constitute a forest. Moreover, there is no land zoned as forest land or timberland that exists within the Project site or within its vicinity (City 2012). Therefore, the proposed Project would not conflict with existing zoning for forest land or timberland. No impact would occur in relation to this issue and no further analysis is required in the EIR.

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

No Impact. As stated in Item II.c, there is no concentration of trees on the site that would constitute a forest. The site has not been historically and is not currently used or planned to be used for forest land. As such, implementation of the proposed Project would not result in the loss of forest land or conversion of forest land to non-forest use. Therefore, no impact would occur in relation to this issue and no further analysis is required in the EIR.

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

No Impact. As stated in Items II.a-d, the Project site is located in an area classified as Urban and Built-Up land where no agricultural resources or forest land are present. Therefore, implementation of the Project would not result in the conversion of Farmland, to nonagricultural use or conversion of forest land to non-forest use. No impact would occur in relation to this issue and no further analysis is required in the EIR.

III. Air Quality

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	■	☐	☐	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	■	☐	☐	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	■	☐	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	■	☐

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

Potentially Significant Impact. Air quality at the Project site is regulated by the South Coast Air Quality Management District's (SCAQMD's) Air Quality Management Plan (AQMP). The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary. The Southern California Association of Governments (SCAG) has prepared the Regional Transportation Plan/ Sustainable Communities Strategy, a long-range transportation plan based on growth forecasts, which forms the basis for land use and transportation control portions of the AQMP. Air quality impacts for the project will be detailed in the Air Quality and Greenhouse Gas Report that will be prepared for the Project. Impacts related to the air quality plans are potentially significant and will require further analysis in the EIR.

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

Potentially Significant Impact. In accordance with CEQA Guidelines Section 15064(h)(3), the SCAQMD's approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and State Clean Air Acts. If a project is not consistent with the AQMP, which is intended to bring the SCAB into attainment for all criteria pollutants, that project can be considered cumulatively considerable. Additionally, if the mass regional emissions calculated for a project exceed the applicable SCAQMD daily significance thresholds that are designed to assist the region in attaining the applicable state and national ambient air quality standards, that project can be considered cumulatively considerable. The Project has the potential to result in a significant impact related to SCAQMD criteria air pollutant emissions thresholds. An Air Quality and Greenhouse Gas Report and a Health Risk Assessment (HRA) will be prepared for the Project to determine if there would be any impacts related to this issue. Impacts are potentially significant and will be further analyzed in the EIR.

c) Expose sensitive receptors to substantial pollutant concentrations?

Potentially Significant Impact. Impacts to sensitive receptors would have the potential to occur because criteria pollutant and toxic air contaminant (TAC) emissions would be generated during Project construction and operation. An Air Quality and Greenhouse Gas Technical Report and HRA will be

prepared to determine if there would be impacts to sensitive receptors. Impacts are potentially significant and will be further analyzed in the EIR.

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

Less Than Significant Impact. Land uses generally associated with odor complaints include the following: agricultural uses (livestock and farming); wastewater treatment plants; food processing plants; chemical plants; composting operations; refineries; landfills; dairies; and fiberglass molding facilities. The Project would not involve these land uses typically associated with emitting objectionable odors. Other potential odor sources associated with the Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the Project construction and operations are not expected to result in adverse effects. Impacts would be less than significant, and no further analysis is required in the EIR.

IV. Biological Resources

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	■
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	☐	☐	☐	■
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	■	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	■	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	■
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	■

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

No Impact. The Project site and its surroundings consist of numerous structures and paved lots associated with industrial land uses. No native vegetation exists onsite, and any remaining vegetation due to landscaping is ornamental and not a special status species. Given the lack of habitat and industrial site use, no wildlife species are expected to occur at the Project site. As such, no direct impact would occur and there would be no potential for habitat modification. No impacts would occur to candidate, sensitive, or special status species, and no further analysis in the EIR is required.

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

No Impact. The Project includes the construction and operation of a warehouse and truck workshop as a replacement to existing industrial operations with no native habitat onsite. No riparian or other sensitive habitat is located at the site or its immediate surroundings. As such, the Project would not have adverse effects on riparian or other sensitive vegetation communities. No impact would occur, and no further analysis is required in the EIR.

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

Less than Significant Impact. The Project site is developed and paved. No wetlands or protected waters are located at the Project site. The riverine habitat 0.5 mile southwest of the Project is the nearest habitat identified in the National Wetlands Inventory (USFWS 2021). As discussed further in section VII, the Project would be subject to BMPs and permit conditions to prevent potentially adverse indirect effects due to grading and construction. No direct impacts would occur, as there are no wetlands at the Project site. Impacts would be less than significant, and no further analysis is required in the EIR.

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

Less than Significant Impact. Los Angeles County designates land as Significant Ecological Areas (SEAs) where important habitat linkages and wildlife corridors can be maintained by limiting development. No SEA is located within the City of Downey, and thus the Project site is not in or near a SEA. The Project site and its surroundings are disturbed and developed with little to no natural habitat that could be utilized by migratory or nesting wildlife. Implementation of the Project would involve demolition of multiple industrial buildings and construction of a new, larger warehouse, which would maintain similar biological conditions as the existing site. The Project would not interfere with wildlife movement, established corridors, or nursery sites. Impacts would be less than significant, and no further analysis in the EIR is required.

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

No Impact. The City's tree protection ordinances apply only to City-owned trees on public streets and do not regulate trees on private property. The General Plan's Conservation Chapter encourages the preservation of mature landscaping on private property but does not regulate it (City 2005). The Project site contains very few trees and conditions would be improved by the landscaping of the proposed Project, which would cover 10.2 percent of the site. The Project would not conflict with any local policies or ordinances protecting existing biological resources, as the trees are located on private property. No impact would occur, and no further analysis is required in the EIR.

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

No Impact. There are no Habitat Conservation Plans, Natural Community Conservation Plans, or otherwise applicable habitat conservation plans in the City of Downey and therefore the Project site. The Project site is disturbed and urbanized, as is most of the City. No impact would occur in relation to conservation plans and no further analysis is required in the EIR.

V. Cultural Resources

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

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

Potentially Significant Impact. Implementation of the Project could cause ground disturbance that has the potential to cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5. A Cultural Resources Report will be prepared for the proposed Project. The Cultural Resources Report will include a records search, Sacred Lands File search, Native American outreach, a review of historic aerial photographs and maps, and a pedestrian survey of the Project site. A review of the directories maintained by the California Historical Resources, the state Office of Historic Preservation (OHP), and the National Register of Historic Places (NRHP) will also be conducted to determine the presence or absence of historic resources in the Project area. Impacts are potentially significant and will be analyzed further in the EIR.

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

Potentially Significant Impact. As stated above, a Cultural Resources Report will be prepared for the proposed Project. Since there is the potential for buried cultural remains/resources to be present within the Project site boundaries, ground-disturbing activities could affect such resources. Therefore, the Project could result in a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5 of the CEQA Guidelines. Impacts are potentially significant and further analysis of this issue will be provided in the EIR.

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

Potentially Significant Impact. The Project site is not located within or near a formal cemetery and is not known to be located on a burial ground. However, there is the potential for unknown buried human remains to be present within the Project area and ground-disturbing activities could disturb human remains. Impacts are potentially significant and further analysis of this issue will be provided in the EIR.

VI. Energy

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

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

Potentially Significant Impact. The construction and operation of the proposed Project would involve the consumption of energy for lighting, heating, cooling, and other Project needs. An Air Quality and Greenhouse Gas Report will be prepared to determine if the Project would have significant impacts related to energy consumption. The report will include projections for increases in energy use for construction and operation. Impacts are potentially significant and will be analyzed further in the EIR.

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

Potentially Significant Impact. Several levels of government have implemented regulatory programs in response to reducing GHG emissions, which consequently serve to increase energy efficiency. Many of the measures these programs are beyond the ability of any future development to implement and are implemented at the utility provider or the manufacturer level. The Project would comply with CCR Title 24, as required to further assure energy efficiency. Title 24 regulates green building practices and includes standards for planning and design, water efficiency, material conservation and resource efficiency, and environmental quality. Regulations for non-residential development set forth the standards for bicycle parking, light pollution reduction, electric vehicle charging spaces, low flow faucets, and toilets, irrigation, and weather protection; all with the goal of increasing energy efficiency. Further discussion of the Project's consistency with state and local plans will be included in the Air Quality and Greenhouse Gas Report and EIR. Impacts are potentially significant and will be further analyzed in the EIR.

VII. Geology and Soils

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	■	☐
ii. Strong seismic ground shaking?	■	☐	☐	☐
iii. Seismic-related ground failure, including liquefaction?	■	☐	☐	☐
iv. Landslides?	☐	☐	☐	■
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	■	☐

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	■	☐	☐	☐
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	■	☐	☐	☐
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	■
f)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☐	■

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

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

Less Than Significant Impact. The City, like the rest of southern California, is located within a seismically active region as a result of being located near the active margin between the North American and Pacific tectonic plates. The Alquist-Priolo Earthquake Fault Zoning Act requires the State Geologist to identify earthquake fault zones along traces of both recently and potentially active major faults. Cities and counties that contain such zones must inform the public regarding the location of these zones, which are usually one-quarter mile or less in width. Proposed development plans within these earthquake fault zones must be accompanied by a geotechnical report prepared by a qualified geologist describing the likelihood of surface rupture. The Project site is not within an Alquist-Priolo Fault Zone. The La Habra Fault Zone is the nearest Alquist-Priolo Earthquake Fault Zone and is located approximately 7.5 miles east of the Project site. Due to this distance, it is unlikely that the Project would be subjected to fault rupture associated with the La Habra Fault Zone. Impacts would be less than significant, and no further analysis is required in the EIR.

ii. Strong seismic ground shaking?

Potentially Significant Impact. The Project site is located within the seismically active southern California region and would be expected to experience effects related to earthquakes, such as ground shaking. A Geotechnical Report will be prepared in order to assess the potential for the Project to have adverse effects during strong seismic ground shaking. Impacts are potentially significant and will be analyzed further in the EIR.

iii. Seismic-related ground failure, including liquefaction?

Potentially Significant Impact. Liquefaction is a phenomenon that occurs when soil undergoes transformation from a solid state to a liquefied condition when subjected to high intensity ground shaking. This typically occurs where susceptible soils (particularly the medium sand to silt range) are located over a high groundwater table (within 50 feet of the surface). Affected soils lose all strength during liquefaction and foundation failure can occur. The City's General Plan Safety Chapter and the DOC's Earthquake Hazards Map indicate that the combination of a susceptible soil type and high groundwater table makes the City, including the Project site, vulnerable to liquefaction (City 2005; DOC 2021). A Geotechnical Report will be prepared in order to further assess the potential for impacts related to liquefaction to occur. Impacts are potentially significant and will be analyzed further in the EIR.

iv. Landslides?

No Impact. The Project site is relatively flat and there are no hillsides or steep topographic features at the site or in surrounding areas that could contribute to landslides. According to the DOC's Earthquake Hazards Map the Project site is not located in a landslide zone (DOC 2021). No impacts related to landslides would occur and no further analysis is required in the EIR.

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

Less Than Significant Impact. The Project site has previously been altered by grading and construction, however soil exposed by construction activities could be subject to erosion if exposed to heavy rain, winds, or other storm events. Compliance with the SCAQMD Rule 403 (Fugitive Dust) would include implementation of soil stabilization measures, such as daily watering, and compliance with the National Pollution Discharge Elimination System (NPDES) General Construction Permit would include implementation of BMPs deemed applicable to the Project's construction activities. The CBC requires an erosion control and grading plans prior to issuance of a grading permit as a means to minimize soil erosion to the extent practicable during both construction and operational phases. Once operational the Project would consist of paved surfaces that would not expose soils to conditions that contribute to erosion. Compliance with the various permits and plans would reduce Project impacts to less than significant in relation to this issue and no further evaluation is required in the EIR.

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?

Potentially Significant Impact. As discussed in section VII.a.iii-iv, the Project site is not likely to experience landslides, but is in a liquefaction hazard zone. A Geotechnical Report will be prepared in order to further assess the potential for impacts related to the geologic unit and soil at the Project site. Impacts are potentially significant and will be analyzed further in the EIR.

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

Potentially Significant Impact. Expansive soils are those that have greater potential for shrinking and swelling when exposed to dry or wet conditions. Soil testing that will be conducted as part of the geological and soils report will indicate the expansion potential of the Project site's soils and any design

features necessary to accommodate such soils. Impacts are potentially significant and will be analyzed further in the EIR.

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

No Impact. The proposed Project does not include the implementation of septic tanks or alternative wastewater disposal systems. No impacts would occur, and no further analysis is required in the EIR.

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

No Impact. The City's General Plan EIR indicates that no impacts related to paleontological resources are expected in the City due to its lack of undisturbed land and no history of finding paleontological resources (City 2004). The Project site has been previously graded and is currently paved land, making it unlikely that construction activities would uncover paleontological resources. No impacts to paleontological resources would occur and no further analysis is required in the EIR.

VIII. Greenhouse Gas Emissions

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

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

Potentially Significant Impacts. The Project has the potential to generate greenhouse gas emissions, both directly and indirectly, that may have a significant impact on the environment. An Air Quality and Greenhouse Gas Report will be prepared to determine if the Project would have significant impacts related to greenhouse gas emissions. Impacts are potentially significant and will be analyzed further in the EIR.

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

Potentially Significant Impacts. The Project has the potential to conflict with a plan, policy, or regulation adopted to reduce emissions of greenhouse gases. An Air Quality and Greenhouse Gas Report will be prepared to determine if the Project would have significant impacts related to greenhouse gas reduction policies. Impacts are potentially significant and will be analyzed further in the EIR.

IX. Hazards and Hazardous Materials

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

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

Less Than Significant Impact. Small amounts of potentially hazardous materials (e.g., fuel, lubricants, and solvents) may be used during construction activities. Hazardous materials used during Project construction would be transported, used, and stored in accordance with state and federal regulations regarding hazardous materials. In addition, materials such as paints, adhesives, solvents, and other substances typically used in building construction would be in the Project area during construction. Improper use, storage, or transportation of hazardous materials can result in accidental releases or spills, potentially posing health risks to workers, the public, and the environment. This is a standard risk on all construction sites, and there would be no greater risk for improper handling, transportation, or spills associated with the Project than would occur on any other similar construction site. Construction

contractors would be required to comply with all applicable federal, State, and local laws and regulations regarding the transport, use, and storage of hazardous construction-related materials, including but not limited to requirements imposed by the United States Environmental Protection Agency (USEPA), the California Department of Toxic Substances Control (DTSC), SCAQMD, and the Los Angeles Regional Water Quality Control Board (RWQCB). With mandatory compliance to applicable hazardous materials regulations, the Project would not create a significant hazard to the public or the environment through routine transport, use, or disposal of hazardous materials during the construction phase.

The new industrial building is intended to be used for logistics and distribution purposes, specifically as a fulfillment center and for cold storage. Operation would involve the use of materials common to urban development that are labeled hazardous (e.g., solvents and commercial cleansers; petroleum products; and pesticides, fertilizers, and other landscape maintenance materials). There is the potential for routine use, storage, or transport of other hazardous materials; however, the precise materials are not known, as the tenants are not yet defined. If hazardous materials, other than those common materials described above, are associated with future warehouse operations, the hazardous materials would only be stored and transported to and from the building sites. Manufacturing and other chemical processing would not occur within the proposed warehouse uses.

Exposure of people or the environment to hazardous materials during operation of the Project may result from (1) the improper handling or use of hazardous substances; (2) transportation accidents; or (3) an unforeseen event (e.g., fire, flood, or earthquake). The severity of any such exposure is dependent upon the type and amount of the hazardous material involved; the timing, location, and nature of the event; and the sensitivity of the individuals or environment affected. As previously discussed, the U.S. Department of Transportation prescribes strict regulations for hazardous materials transport, as described in Title 49 of the Code of Federal Regulations (i.e., the Hazardous Materials Transportation Act); these are implemented by Title 13 of the California Code of Regulations. It is possible that vendors may transport hazardous materials to and from the Project; and the drivers of the transport vehicles must comply with the Hazardous Materials Transportation Act. Hazardous materials or wastes stored on site are subject to requirements associated with accumulation time limits, amounts, and proper storage locations and containers, and proper labeling. The number of materials that would be handled at any one time for the proposed warehouse operations would be relatively small. Additionally, for removal of hazardous waste from the site, hazardous waste generators are required to use a certified hazardous waste transportation company which must ship hazardous waste to a permitted facility for treatment, storage, recycling, or disposal. With compliance with applicable regulations, operation of the Project would not result in a significant risk to the public or the environment through the potential routine transport, use, or disposal of hazardous materials. Impacts would be less than significant, and no further evaluation is required in the EIR.

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?

Potentially Significant Impact. Hazardous materials releases can occur if there are existing hazardous materials at the Project site that would be disturbed by Project construction or operation, or if future Project construction or operation activities involve the handling of substantial amounts of hazardous materials with a potential to result in upset and accident conditions. As discussed above, the Project does not propose handling substantial amounts of hazardous materials in the future. However, there are hazardous materials onsite that could be disturbed by the Project. A Phase I Environmental Site

Assessment and Phase II Investigation Report were conducted at the Project site in 2017 and indicated the existence of contamination onsite (SCS 2017a; SCS 2017b). Mitigation measures and regular monitoring of the site have been occurring since the site became a Cleanup Program Site under RWQCB in 2018. The impacts of the proposed Project with respect to exposing the public or the environment to hazardous materials through upset and accident conditions are potentially significant and will be analyzed further in the EIR.

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

No Impact. The Project site is not located within one-quarter mile of a school, as the school nearest to the Project site, A.L. Gauldin Elementary School, is approximately 0.7 mile south of the Project site. No impact related to the handling of hazardous materials within one-quarter mile of a school would occur and no further evaluation is required in the EIR.

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?

Potentially Significant Impact. Pursuant to Government Code Section 65962.5 (Cortese List) requirements, the State Water Resources Control Board (SWRCB) GeoTracker database (SWRCB 2021) and the California Department of Toxic Substances Control (DTSC) EnviroStor database (DTSC 2021) were searched for hazardous materials sites within the Project area. The adjacent parcel at 9236 E. Hall Road has an EnviroStor listing related to a tiered permit. No information or data was available on the types and concentrations of VOCs associated with the release (SCS 2017a). The Project site (Downey Industrial Center) has an active cleanup site. These listings indicate there may be a hazard to the public or environment because of a hazardous materials site. Impacts are potentially significant and further analysis will be included in the EIR.

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

No Impact. The Project site is not within the planning area for any airport land use plan (LA County 2022). The nearest airport to the project site is the Compton Woodley Airport, located 11.3 miles southwest of the Project site. No impacts related to a safety hazard or excessive noise from an airport would occur and no further analysis in the EIR is required.

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

Potentially Significant Impact. The City's General Plan Safety Chapter outlines emergency response plans that are coordinated at the federal, state, and local level to ensure adequate emergency response. The City maintains an Emergency Operation Plan for local emergencies and is a member of mutual aid agreements with nearby cities, as coordinated by the Los Angeles County Office of Disaster Preparedness (City 2005). The casualty collection points during emergencies would be the Rio Hondo Golf Course and Apollo Park, which are located 3 miles northwest and 3 miles west of the Project site, respectively. The Project would not physically interfere with these evacuation plans. To determine the Project's potential impacts on emergency access during operation, a Traffic Impact Analysis will be

prepared for the proposed Project. Impacts are potentially significant and will be further analyzed in the EIR.

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

Less Than Significant Impact. According to the Very High Fire Hazard Severity Zones (VHFHSZ) in LRA Map prepared by California Department of Forestry and Fire Protection (CAL FIRE) for Los Angeles County, the Project site is not in a VHFHSZ (CAL FIRE 2011). The City's Safety Chapter of the General Plan recognizes structure fires as the main threat in the City due to the lack of undeveloped land with vegetation (City 2005). There are no wildland areas adjacent to the Project that would contribute to a wildland fire. The proposed Project would comply with the fire code in Municipal Code Article III Chapter 3, including adopting the latest CBC standards, and the California Fire Code to minimize impacts related to wildland fires. The proposed Project is not anticipated to expose people or structures to wildland fires. Impacts would be less than significant, and no further evaluation is required in the EIR.

X. Hydrology and Water Quality

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

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	■	☐	☐	☐

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

Potentially Significant Impact. The Los Angeles Regional Water Quality Control Board sets water quality standards for all ground and surface waters within the Project's region. Activities associated with the construction of the proposed Project would include grading, which may have the potential to release pollutants (e.g., oil from construction equipment, cleaning solvents, paint) and silt off-site which could impact water quality. The Project would prepare a Water Quality Management Plan (WQMP) to illustrate how low impact development Best Management Practices (BMPs) have been incorporated into Project construction and design. The WQMP would incorporate BMPs in accordance with the California Stormwater BMPs Handbook and the City's BMP Design Manual to control erosion and protect the quality of surface water runoff.

As required under the NPDES, a SWPPP would be created specifically for construction of the proposed Project. The plan would address erosion control measures that would be implemented to avoid or minimize erosion impacts to exposed soil associated with construction activities. Implementation of the appropriate BMPs is expected to reduce or eliminate the discharge of potential pollutants. However, impacts are potentially significant and further analysis will be provided in the EIR.

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

Less Than Significant Impact. The Project is located within the Central Groundwater Basin, which is recharged at the Whittier Narrows Dam, Rio Hondo Spreading Grounds, San Gabriel Coastal Spreading Grounds, Lower San Gabriel River, and Alamitos Barrier Project (CBMWD 2021). The Central Groundwater Basin is very low priority under the Sustainable Groundwater Management Act (SGMA), and therefore is not required to create a Groundwater Sustainability Plan (GSP; DWR 2020).

Groundwater is the primary supply source of water for Downey via the Central Basin Municipal Water District (CBMWD). According to the CBMWD's Urban Water Management Plan (UWMP), there is sufficient water resources to serve the member agencies (including the City of Downey) through 2045 in normal, dry, and multiple dry years (CBMWD 2021). The Project would not substantially decrease groundwater supplies.

The Project site is currently occupied by industrial uses and consists primarily of impermeable surfaces, such as building roofs and paved internal roads. With implementation of the Project, conditions would remain mostly impermeable, but with the addition of landscaping features (covering 10.2 percent of the Project site) that could facilitate some percolation and groundwater recharge. There would not be a

substantial interference with groundwater recharge as a result of the Project. Impacts would be less than significant, and no further evaluation is required in the EIR.

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

i. Result in substantial erosion or siltation on- or off-site?

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

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional resources of polluted runoff?

Potentially Significant Impact. The Project has the potential to change runoff patterns through changes to impervious surfaces but does not include alteration of a stream or river. BMPs would be established to prevent substantial erosion. A Drainage Study will be prepared to determine if there would be on- or off-site flooding impacts, stormwater drainage capacity overload, or substantial polluted runoff. The WQMP, applicable BMPs, and the Drainage Study will be discussed in the EIR to determine impacts related to drainage patterns. Impacts are potentially significant and will be analyzed in the EIR.

iv. Impede or redirect flood flows?

Less than Significant Impact. According to the Federal Emergency Management Agency (FEMA) Flood Map Service Center, the Project site is within Zone X (shaded; FEMA 2008). According to the FEMA glossary these “are the areas between the limits of the base flood and the 0.2-percent-annual-chance (or 500-year) flood.” The USACE raised local channel levees in 2000 such that no properties in Downey remain within the 100-year floodplain. Therefore, the Project would not significantly impede or redirect flood flows. Impacts are less than significant and will be analyzed further in the EIR.

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

Less than Significant Impact. As discussed above, the Project site is not within the 100-year floodplain and does not have a significant risk of flood. The Project site is located roughly 12 miles inland from the Pacific Ocean and is not at risk of inundation from a tsunami. Seiche zones require closed or semi-closed bodies of water; while an existing above-ground water tank is located on the south side of Stewart and Gray Road southwest of the Project site, failure of this facility and subsequent inundation of the Project site is not anticipated to result in the release of pollutants because any existing contamination on-site would be remediated prior to Project completion and operations. Once operational, the Project would not involve notable amounts of hazardous materials or other pollutant sources such that incidental inundation by tank failure would release substantial quantities of pollutants into the environment. The Project would not be at risk of floods, tsunamis, or seiches, and therefore would not release pollutants due to inundation. Impacts are less than significant and do not require further analysis in the EIR.

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

Potentially Significant Impact. As discussed in section X.a, implementation of the Project has the potential to impact water quality. However, as discussed in section X.b, there is no GSP for the Project area, so there would be no conflicts with a sustainable groundwater management plan. Water quality control plan consistency will be determined based on further information to be provided in a Hydrology/Drainage study and WQMP. Impacts regarding a water quality control plan are potentially significant and will be analyzed further in the EIR.

XI. Land Use and Planning

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

a) Physically divide an established community?

No Impact. The Project would develop a new warehouse and truck repair facility on an existing industrial site. The surrounding land uses are commercial and other industrial site. Implementation of the proposed Project would maintain the existing land use and would not add any features that would physically divide an established community. No impacts would occur, and no further evaluation is required in the EIR.

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

Potentially Significant Impact. The Project site is zoned as M-2 (General Manufacturing Zone) and planned for the GM (General Manufacturing) land use. Warehouse and truck repair uses are permitted in the M-2 zone pursuant to Municipal Code Section 9318.04. The change in site use from industrial to a distribution center may cause significant environmental impact related to the General Plan and Zoning Code. Consistency with these policies will be discussed in the EIR. Therefore, impacts are potentially significant and will be further analyzed in the EIR.

XII. Mineral Resources

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

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?

No Impact. According to the City's General Plan EIR, their review of the state of California's mineral resource maps indicated that there are no known mineral resources located within the City (City 2004). Therefore, the Project would not 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. No impact would occur, and no further analysis is required in the EIR.

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

No Impact. As stated above in Item XII.a, the City's General Plan EIR does not recognize any mineral resource areas in the City. Additionally, the Project area is not used for mineral extraction and is not known as a locally important mineral resource recovery site. No impact would occur and no further analysis in required in the EIR.

XIII. Noise

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	■	☐	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	■	☐	☐	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	■

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

Potentially Significant Impact. The Project's construction and operational activities could cause significant ambient noise level impacts in the vicinity of the Project site and will be evaluated in a Noise Study. Impacts are potentially significant and will be analyzed further in the EIR.

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

Potentially Significant Impact. The Project's construction and operational activities could result in a potentially significant vibration impact. To determine the Project's construction and operational vibration, a Noise Study will be prepared for the proposed Project. Impacts are potentially significant and will be analyzed further in the EIR.

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

No Impact. The Project site is not within the planning area for any airport land use plan (LA County 2022). The nearest airport to the project site is the Compton Woodley Airport, located 11.3 miles southwest of the Project site. No impacts related to airport noise would occur and no further analysis in the EIR is required.

XIV. Population and Housing

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	■	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	■

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

Less Than Significant Impact. The proposed Project does not include residential development that would directly or indirectly affect the number of residents in the area and would not contribute to the creation of additional housing in the City. The proposed Project would include a warehouse building and truck workshop, which would replace existing industrial buildings with similar business uses. Once operational, the Project is expected to hire from the existing population and has no other features that would directly or indirectly induce population growth. Impacts would be less than significant in relation to this issue and no further analysis is required in the EIR.

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

No Impact. The proposed Project includes demolition of industrial buildings and construction of a warehouse building and truck workshop. The existing development does not contain housing; thus, the Project would not remove housing or displace people, necessitating the construction of replacement housing. No impact would occur, and no further analysis is required in the EIR.

XV. Public Services

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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:				
a) Fire protection?	☐	☐	■	☐
b) Police protection?	☐	☐	■	☐
c) Schools?	☐	☐	☐	■
d) Parks?	☐	☐	☐	■

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Other public facilities?	☐	☐	☐	■

a) Fire protection?

Less than Significant Impact. The Project would involve the demolition of five existing industrial buildings (totaling approximately 433,000 sf) and the construction of a new warehouse and truck workshop (totaling 535,110 sf). The Downey Fire Department operates four stations with four corresponding service districts. The Project site is in District 2 and serviced by Fire Station #2, which is located at 9556 Imperial Highway, approximately 1 mile south of the Project site. In addition to the City's four fire stations, the City is a member of mutual aid agreements with nearby cities that assist the other jurisdictions as necessary (City 2005). The Project would not include a land use that would require unique or expanded fire protection services. The Project would require fire protection services comparable to the existing conditions at the site and would not result in an increase in services such that new facilities or resources would need to be added to the Fire Department's capacity. Impacts are less than significant, and no further analysis is required in the EIR.

b) Police protection?

Less than Significant Impact. The proposed Project would include the construction and operation of a warehouse and truck workshop that would replace existing industrial facilities. The Downey Police Department would service the Project site and is headquartered at 10911 Brookshire Avenue, 1.1 miles northwest of the Project site. The Project would require police protection services however, no new uses that would increase the City's population or would require unique police protection services would be involved. As such, the Project would not result in the need for expanded facilities. Impacts are less than significant, and no further analysis is required in the EIR.

c) Schools?

No Impact. The Project would involve demolition of existing industrial facilities and construction of a warehouse and truck workshop. New residents would not be introduced to the area and therefore would not require additional schools. No impact would occur, and no further analysis is required in the EIR.

d) Parks?

No Impact. The Project would involve demolition of existing industrial facilities and construction of a warehouse and truck workshop. It is not anticipated to result in increased use or demand on parks that would require the construction or expansion of additional park and recreational facilities. No impact would occur, and no further analysis is required in the EIR.

e) Other public facilities?

No Impact. Other public facilities may include libraries, senior centers, community centers, and pools, all of which are intended to serve the general public. The proposed Project involves the construction and operation of a warehouse and truck workshop site and would not result in a change of demand on these services. Therefore, there would be no need for the construction or expansion of other public facilities. Therefore, no impact would occur, and no further analysis is required in the EIR.

XVI. Recreation

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

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

No Impact. The proposed Project consists of construction and operation of a warehouse site. The Project would not increase the use of or create the need for new parks and recreational facilities. Therefore, the proposed Project would not result in physical deterioration of an existing open space area or any recreation facilities. No impact would occur, and no further analysis is required in the EIR.

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?

No Impact. The proposed Project consists of construction and operation of a warehouse site. It would not include recreational facilities or require the construction of new recreational facilities. No impacts would occur, and no further analysis is required in the EIR.

XVII. Transportation

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

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

Potentially Significant Impact. To determine the Project's circulation system impacts, a Traffic Impact Analysis will be prepared for the proposed Project, as the Project has the potential to conflict with circulation plans. Impacts are potentially significant and will be further analyzed in the EIR.

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

Potentially Significant Impact. To determine the Project's vehicle miles traveled and consistency with CEQA Guidelines section 15064.3, a Traffic Impact Analysis will be prepared. Impacts are potentially significant and will be further analyzed in the EIR.

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

Potentially Significant Impact. A Traffic Impact Analysis will be prepared for the proposed Project to determine if there would be any hazards or incompatible uses as a result of the Project. Impacts are potentially significant and will be further analyzed in the EIR.

d) Result in inadequate emergency access?

Potentially Significant Impact. To determine the Project's potential impacts on emergency access, a Traffic Impact Analysis will be prepared for the proposed Project. Impacts are potentially significant and will be further analyzed in the EIR.

XVIII. Tribal Cultural Resources

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or	■	☐	☐	☐
ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	■	☐	☐	☐

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

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

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

Potentially Significant Impact. Construction and operation of the proposed Project would result in land disturbance and other activities that could result in a potentially significant impact to a tribal cultural resource. A Cultural Resources Study will be prepared for the proposed Project site. As part of the EIR preparation process, the City will offer consultation to California Native American tribes that are traditionally and culturally affiliated with the area pursuant to AB 52.

Through its implementing regulations, AB 52 requires that lead agencies consult with California Native American tribes that are traditionally and culturally affiliated with the geographic area of the Proposed Project and who have requested in writing to be informed by the lead agency of proposed projects in the tribe's geographic area (Public Resources Code Section 21080.3.1(b) and (d)). Pursuant to AB 52, as the CEQA Lead Agency, the City, will notify tribes of the Project and solicit consultation. The conclusion of the AB 52 process and the Cultural Resources Study will be discussed in the EIR.

XIX. Utilities and Service Systems

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

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

Less than Significant Impact. The proposed Project is in a developed area with existing infrastructure related to water, wastewater, stormwater, electricity, natural gas, and telecommunications facilities. The Project site has connections to these utilities related to the existing buildings and would make connections to the utilities during construction. Connections would not require relocation or construction of the related facilities. Impacts would be less than significant, and no further analysis is required in the EIR.

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

Less than Significant Impact. The City's 2015 UWMP evaluates the adequacy of the City's water supply and determined that the City can meet demands during normal, single dry, and multiple dry years for the following 20 years (City 2018). The City is a retailer of water purchased from the CBMWD, which is reliant on water imported from the Metropolitan Water District of Southern California (MWD). The CBMWD's UWMP demonstrated the ability to meet the demands of their member agencies, through MWD supplies, in normal, dry, and multiple dry years through 2045 (CBMWD 2021). Water conservation regulations are also included in City Municipal Code Sections 7350 and 7353 to ensure adequate water resources are available to all customers in the City. The Project would have sufficient water supplies available given that the City's water demands can be supplied during normal, dry, and multiple dry year. Impacts would be less than significant, and no further analysis will be provided in the EIR.

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

Less than Significant Impact. The City of Downey does not currently have a wastewater facility within its jurisdiction, but utilizes recycled water provided by CBMWD and treated by the Los Angeles County Sanitation District (LACSD) at the Los Coyotes Water Reclamation Plant in Cerritos. According to the CBMWD UWMP, the Los Coyotes Water Reclamation Plant is operating at 50 percent below capacity. Wastewater is also currently generated by the existing facilities at the Project site and would not be expected to substantially increase with implementation of the proposed Project. Therefore, the Project would not result in a demand increase such that the wastewater treatment provider would be unable to fulfill its existing commitments. Impacts would be less than significant, and no further analysis will be required in the EIR.

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

Less than Significant Impact. Solid waste disposal services in the City of Downey are provided by CalMet Services, Inc, which transports waste to the Downey Area Recycling and Transfer Facility, which is owned by the County Sanitation Districts of Los Angeles County. Policies and programs listed under Utilities and Service Systems in Appendix A of the City's General Plan EIR require recycling and waste reduction, educational programs, and waste reporting (City 2004). With implementation of these programs and policies, solid waste capacity was determined to be a less than significant impact with mitigation in the City's General Plan EIR (City 2004). Information would be provided to the Project tenants by the City regarding solid waste reduction. Impacts would be less than significant, and no further analysis will be included in the EIR.

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

Less than Significant Impact. Federal, State, and local statutes and regulations regarding solid waste generation, transport, and disposal are intended to decrease solid waste generation through mandatory reductions in solid waste quantities (e.g., through recycling and composting of green waste) and the safe and efficient transport of solid waste. The proposed Project would be required to comply with applicable practices enacted by the City under the California Integrated Waste Management Act of 1989

(AB 939) and any other applicable local, State, and federal solid waste management regulations. AB 939 requires all counties to prepare a County Integrated Waste Management Plan (CIWMP). The County of Los Angeles adopted its CIWMP in 1997 and is in the process of updating its Countywide Siting Element as of January 2022.

Article V, Chapter 8 (Ordinance No. 09-1252) of the Downey Municipal Code requires that 100 percent of inert debris and at least 50 percent of the remaining construction and demolition debris generated during a construction or demolition project, be diverted from landfill, unless the applicant is exempt under Section 5870. Covered applicants are required to complete a Construction and Demolition Waste Management Plan (Form A) that details anticipated diversion practices, and materials to be recycled or reused. The Waste Management Plan Compliance Report (Form B) must be submitted 30 days after the completion of the project. The proposed Project would comply with all regulatory requirements regarding solid waste. Impacts would be less than significant, and no further analysis is required in the EIR.

XX. Wildfire

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

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less than Significant Impact. The City's General Plan Safety Chapter outlines emergency response plans that are coordinated at the federal, state, and local level to ensure adequate emergency response. The City maintains an Emergency Operation Plan for local emergencies and is a member of mutual aid agreements with nearby cities, as coordinated by the Los Angeles County Office of Disaster Preparedness (City 2005). The casualty collection points during emergencies would be the Rio Hondo

Golf Course and Apollo Park, which are located three miles northwest and three miles west of the Project site, respectively. The Project would not physically interfere with evacuation plans.

In the event of an emergency, Project site would be accessible via the three driveways along Hall Road or the two driveways along Stewart and Gray Road. Fire lanes 26 feet wide would be available on all four sides of the building. Project impacts would be less than significant, and no further evaluation is required in the EIR.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No Impact. According to the VHFHSZ in LRA Map prepared by CAL FIRE for Los Angeles County, the Project site is not in a VHFHSZ (CAL FIRE 2011). The City's Safety Chapter of the General Plan recognizes structure fires as the main threat in the City due to the lack of undeveloped land with vegetation (City 2005). The proposed Project would comply with the fire code in Municipal Code Article III Chapter 3, including adopting the latest CBC standards, and the California Fire Code to minimize impacts related to fires. The proposed Project would not exacerbate wildfire risks due to slope, prevailing winds, or other factors, and thereby would not expose Project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. No impacts would occur, and no further evaluation is required in the EIR.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

No Impact. The proposed Project would not include the installation of infrastructure that would exacerbate fire risks. The Project would be required to comply with the California Fire Code and Municipal Code Article III, Chapter 3, which stipulate the standards for access, fire hydrants, water pressure, fire lanes, etc. Therefore, the Project would have no impact in relation to this issue. No further analysis is required in the EIR.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less Than Significant Impact. The Project site is flat and is not identified as an area subject to landslides (City 2005). Flooding is also not likely to result, as the Project area is flat and free of slopes, such that there would be risks to structures or the environment. Impacts would be less than significant, and no further analysis is required in the EIR.

XXI. Mandatory Findings of Significance

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

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

Potentially Significant Impact. The proposed Project consists of demolition of existing manufacturing and industrial uses, and the subsequent construction and operation of a new warehouse/distribution facility. As discussed in section IV, the site is developed and does not contain native habitat that is endangered or could support endangered species. As such, issues related to fish, wildlife, and sensitive or endangered plant communities are less than significant. Impacts related to history will be addressed in a Cultural Resources Study and further analyzed in the EIR. For the purposes of this Initial Study, impacts associated with these issues are identified as potentially significant.

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

Potentially Significant Impact. State CEQA Guidelines Section 15130 requires a discussion of the cumulative impacts of a project when the project's incremental effect is "cumulatively considerable," meaning that the project's incremental effects are considerable when viewed in connection with the

effects of past, current, and probable future projects. Because the proposed Project has the potential for significant impacts to occur, cumulative impacts may also be significant. A cumulative impact analysis will be provided in the EIR.

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

Potentially Significant Impact. The proposed Project may cause adverse effects on humans, as identified in the potentially significant issue areas. The EIR will further analyze the necessary issue areas to determine their impact on human beings, either directly or indirectly.

3.0 References

California Department of Conservation (DOC). 2016. Farmland Mapping and Monitoring Program. California Important Farmland Finder. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed January 27, 2022.

California Department of Conservation (DOC). 2021. California Earthquake Hazards Zone Application. Available at: https://www.conservation.ca.gov/cgs/geohazards/eq-zapp. Accessed January 25, 2022.

California Department of Forestry and Fire Protection (CAL FIRE). 2011. Very High Fire Hazard Severity Zones in Local Responsibility Area for Los Angeles County.

California Department of Transportation (Caltrans). 2018. California State Scenic Highways Map. Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed January 26, 2022.

California Department of Water Resources (DWR). 2020. Statewide Map of Current SGMA Prioritization. April 28.

Central Basin Municipal Water District (CBMWD). 2021. 2020 Urban Water Management Plan. June.

Downey, City of (City). 2018. 2015 Urban Water Management Plan. February.

2012. Zoning Code and Map. Available at: https://www.downeyca.org/our-city/departments/community-development/planning/zoning-code-map. Accessed January 26, 2022.

2005. General Plan. Available at: https://www.downeyca.org/our-city/departments/community-development/planning/general-plan-map. Accessed January 26, 2022.

2004. General Plan EIR. Available at: https://www.downeyca.org/our-city/departments/community-development/planning/environmental-documents. Accessed January 26, 2022.

Department of Toxic Substances Control (DTSC). 2022. EnviroStor. Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed January 28, 2022.

Federal Emergency Management Agency (FEMA). 2008. FEMA Flood Map Service Center. Available at: https://msc.fema.gov/portal/home. Accessed January 28, 2022.

Los Angeles, County of. 2022. Airport Land Use Commission Interactive Map (A-NET). Available at: https://lacounty.maps.arcgis.com/apps/webappviewer/index.html?id=acf2e87194a54af9b266bf07547f240a. Accessed January 28, 2022.

2015. Significant Ecological Areas and Coastal Resource Areas Policy Map. February.

SCS Engineers (SCS). 2017a. Phase I Environmental Site Assessment Downey Industrial Center. January 31.

2017b. Phase II Investigation Report Downey Industrial Center. April 13.

State Water Resources Control Board (SWRCB). 2022. GeoTracker. Available at: https://geotracker.waterboards.ca.gov/. Accessed January 28, 2022.

U.S. Census Bureau. 2020. Quick Facts United States. Available at: https://www.census.gov/quickfacts/US. Accessed January 27, 2022.

U.S. Fish and Wildlife Service (USFWS). 2021. National Wetlands Inventory. Available at: https://www.fws.gov/wetlands/Data/Mapper.html. Accessed January 28, 2022. December 1.

4.0 Preparers

David Crook, AICP, LEED AP, Principal Planner (Project Manager)

Yara Fisher, AICP, Principal Planner (QA/QC)

Shelby Bocks, Environmental Planner

This page intentionally left blank

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

April 14, 2022

Alfonso Hernandez
City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Re: 2022030738, Prologis Steward and Gray Road Warehouse Project, Los Angeles County

Dear Mr. Hernandez:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- **a.** A brief description of the project.
- **b.** The lead agency contact information.
- **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- **a.** Alternatives to the project.
- **b.** Recommended mitigation measures.
- **c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- **a.** Type of environmental review necessary.
- **b.** Significance of the tribal cultural resources.
- **c.** Significance of the project's impacts on tribal cultural resources.
- **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- **a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
- **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All 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.
    b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:

a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.

b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.

c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

cc: State Clearinghouse

DEPARTMENT OF TRANSPORTATION
District 7 – Office of Regional Planning
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 266-3562
FAX (213) 897-1337
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life.

April 26, 2022

Alfonso Hernandez
City of Downey
11111 Brookshire Avenue
Downey, CA 90241

RE: Prologis Stewart and Gray Road Warehouse Project – Notice of Preparation of an Environmental Impact Report (NOP)
SCH # 2022030738
GTS # 07-LA-2022-03898

Dear Alfonso Hernandez:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced NOP. The proposed Project would include the demolition of five existing buildings and the construction of an approximately 510,110 square foot (sf) industrial concrete tilt-up building for warehouse/logistics uses, and a 25,000-sf ancillary truck workshop facility. The Project would include 614 auto parking spaces, 215 trailer and/or container parking spaces and 109 dock loading doors. The warehouse building would have a 40-foot interior clear height and would reach a maximum height of 55 feet above grade. The City of Downey is the Lead Agency under the California Environmental Quality Act (CEQA).

The Project is located in the City of Downey at the northwest corner of the intersection of Stewart and Gray Road and Woodruff Avenue. The Project is in vicinity of Interstate 605 (I-605) and Interstate 105 (I-105). The NOP finds that Transportation impacts may be potentially significant, therefore a Traffic Impact Analysis will be prepared for the proposed Project to be further analyzed in the Environmental Impact Report (EIR). We look forward to reviewing the Project's Traffic Impact Analysis.

As a reminder, Senate Bill 743 (2013) mandates that Vehicle Miles Traveled (VMT) be used as the primary metric in identifying transportation impacts of all future projects under CEQA, starting July 1, 2020. For information on determining transportation impacts in terms of VMT on the State Highway System, see the Technical Advisory on Evaluating Transportation Impacts in CEQA by the California Governor's Office of Planning and Research (OPR), dated December 2018. Caltrans has published the VMT-focused Transportation Impact Study Guide (TISG), dated May 20, 2020, and the Caltrans Interim Local Development and Intergovernmental Review (LD-IGR) Safety Review Practitioners Guidance, prepared on December 18, 2020. Caltrans' new TISG is largely based on the OPR 2018 Technical Advisory. You can review these resources online at:

- http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf
- https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/sb743/2020-05-20-approved-vmt-focused-tisg-a11y.pdf
- https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/sb743/2020-12-22-updated-interim-ldigr-safety-review-guidance-a11y.pdf

We encourage the Lead Agency to evaluate the potential of Transportation Demand Management (TDM) strategies and Intelligent Transportation System (ITS) applications to better manage the transportation network, as well as transit service and bicycle or pedestrian connectivity improvements. For TDM strategies, please refer to the Federal Highway Administration's Integrating Demand Management into the Transportation Planning Process: A Desk Reference (Chapter 8). This reference is available online at: http://www.ops.fhwa.dot.gov/publications/fhwahop12035/fhwahop12035.pdf

Caltrans also encourages lead agencies to promote alternative transportation. This will increase accessibility and decrease Greenhouse Gas Emissions, which supports Caltrans' mission to provide a safe and reliable transportation network that serves all people and respects the environment. For additional strategies that will promote equity and environmental preservation, please refer to the 2010 Quantifying Greenhouse Gas Mitigation Measures report by the California Air Pollution Control Officers Association (CAPCOA), which is available online at: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

Finally, any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State Highways will need a Caltrans transportation permit. Caltrans recommends that the Project limit construction traffic to off-peak periods to minimize the potential impact on State facilities. If construction traffic is expected to cause issues on any State facilities, including I-105 and I-605, please submit a construction traffic control plan detailing these issues for Caltrans' review.

If you have any questions regarding these comments, please contact Ronnie Escobar, the project coordinator, at Ronnie.Escobar@dot.ca.gov, and refer to GTS # 07-LA-2022-03898.

Sincerely,

Miya Edmonson

MIYA EDMONSON
LDR/CEQA Branch Chief

cc: State Clearinghouse

LOS ANGELES COUNTY
SANITATION DISTRICTS
Converting Waste Into Resources

Robert C. Ferrante
Chief Engineer and General Manager

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
(562) 699-7411 • www.lacsd.org

April 22, 2022

Ref. DOC 6503232

Mr. Alfonso Hernandez, Senior Planner
City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Dear Mr. Hernandez:

NOP Response to Prologis Stewart & Gray Road Warehouse Project

The Los Angeles County Sanitation Districts (Districts) received a Notice of Preparation (NOP) of a Draft Environmental Impact Report for the subject project on April 1, 2022. The proposed project is located within the jurisdictional boundaries of District No. 2. We offer the following comments regarding sewerage service:

1. 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' East Compton Boulevard Extension Trunk Sewer, located in Woodruff Avenue, south of Stewart and Gray Road. The Districts' 15-inch diameter trunk sewer has a capacity of 1.8 million gallons per day (mgd) and conveyed a peak flow of 0.5 mgd when last measured in 2016.

2. The wastewater generated by the proposed project will be treated at the Los Coyotes Water Reclamation Plant located in the City of Cerritos, which has a capacity of 37.5 mgd and currently processes an average flow of 23.1 mgd.

3. The expected increase in average wastewater flow from the project site, described in the Initial Study as 510,110 square feet of warehouse; 598 square feet of potential office space; and 25,000 square feet of truck workshop facility, is 4,547 gallons per day, after the structures on the project site are demolished. For a copy of the Districts' average wastewater generation factors, go to www.lacsd.org, under Services, then Wastewater Program and Permits, select Will Serve Program, and scroll down to click on the Table 1, Loadings for Each Class of Land Use link.

4. The Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Districts' Sewerage System or to increase the strength or quantity of wastewater discharged from connected facilities. This connection fee is used by the Districts for its capital facilities. Payment of a connection fee may be required before this project is permitted to discharge to the Districts' Sewerage System. For more information and a copy of the Connection Fee Information Sheet, go to www.lacsd.org, under Services, then Wastewater (Sewage) and select Rates & Fees. In determining the impact to the Sewerage System and applicable connection fees, the Districts will determine the user category (e.g. Condominium, Single Family Home, etc.) that best represents the actual or anticipated use of the parcel(s) or facilities on the parcel(s) in the development. For more specific information regarding the connection fee application procedure and fees, the developer should contact the Districts' Wastewater Fee Public Counter at (562) 908-4288, extension 2727.

5. In order for the Districts to conform to the requirements of the Federal Clean Air Act (CAA), the 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 CAA. 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 the developer that the Districts intend to provide this service up to the levels that are legally permitted and to inform the developer 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 2743, or mandyhuffman@lacsd.org.

Very truly yours,

Mandy Huffman

Mandy Huffman
Environmental Planner
Facilities Planning Department

MNH:mnh

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL: April 14, 2022

ashernandez@downeyca.org
Alfonso Hernandez, Senior Planner
City of Downey, Planning Department
11111 Brookshire Avenue
Downey, California 90241

Notice of Preparation of an Environmental Impact Report for the Prologis Stewart and Gray Road Warehouse Project (Proposed Project)

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. Our comments are recommendations on the analysis of potential air quality impacts from the Proposed Project that should be included in the Environmental Impact Report (EIR). Please send a copy of the EIR upon its completion and public release directly to South Coast AQMD as copies of the EIR submitted to the State Clearinghouse are not forwarded. **In addition, please send all appendices and technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all emission calculation spreadsheets, and air quality modeling and health risk assessment input and output files (not PDF files). Any delays in providing all supporting documentation for our review will require additional review time beyond the end of the comment period.**

CEQA Air Quality Analysis

Staff recommends that the Lead Agency use South Coast AQMD's CEQA Air Quality Handbook and website[1] as guidance when preparing the air quality and greenhouse gas analyses. It is also recommended that the Lead Agency use the CalEEMod[2] land use emissions software, which can estimate pollutant emissions from typical land use development and is the only software model maintained by the California Air Pollution Control Officers Association.

South Coast AQMD has developed both regional and localized significance thresholds. South Coast AQMD staff recommends that the Lead Agency quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds[3] and localized significance thresholds (LSTs)[4] to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed 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

[1] South Coast AQMD's CEQA Handbook and other resources for preparing air quality analyses can be found at: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook.
[2] CalEEMod is available free of charge at: www.caleemod.com.
[3] South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.
[4] South Coast AQMD's 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.

mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), 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, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA ***operational*** thresholds to determine the level of significance.

If the Proposed Project generates diesel emissions from long-term construction or attracts diesel-fueled vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment[5].

In the event that implementation of the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the EIR. The assumptions in the air quality analysis in the EIR will be the basis for evaluating the permit under CEQA and imposing permit conditions and limits. Questions on permits should be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

The California Air Resources Board's (CARB) *Air Quality and Land Use Handbook: A Community Health Perspective*[6] 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 with additional guidance on strategies to reduce air pollution exposure near high-volume roadways available in CARB's technical advisory[7].

South Coast AQMD staff is concerned about potential public health impacts of siting warehouses within close proximity of sensitive land uses, especially in communities that are already heavily affected by the existing warehouse and truck activities. The South Coast AQMD's Multiple Air Toxics Exposure Study (MATES V), completed in August 2021, concluded that the largest contributor to cancer risk from air pollution is diesel particulate matter (DPM) emissions[8]. According to the MATES V Carcinogenic Risk interactive Map, the area surrounding the Proposed Project has an estimated cancer risk over 562 in one million[9]. Operation of warehouses generates and attracts heavy-duty diesel-fueled trucks that emit DPM. When the health impacts from the Proposed Project are added to those existing impacts, residents living in the communities surrounding the Proposed Project will possibly face an even greater exposure to air pollution and bear a disproportionate burden of increasing health risks.

Mitigation Measures

In the event that the Proposed Project results in significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize these impacts. Any impacts resulting from mitigation measures must also be analyzed. Several resources to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project include South Coast AQMD's CEQA Air Quality Handbook[1], South Coast AQMD's Mitigation Monitoring and

[5] South Coast AQMD's guidance for performing a mobile source health risk assessment can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.
[6] CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* can be found at: http://www.arb.ca.gov/ch/handbook.pdf.
[7] CARB's technical advisory can be found at: https://www.arb.ca.gov/ch/landuse.htm.
[8] South Coast AQMD. August 2021. *Multiple Air Toxics Exposure Study in the South Coast Air Basin V.* Available at: http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v.
[9] South Coast AQMD. MATES V Data Visualization Tool. Accessed at: MATES Data Visualization (arcgis.com).

Reporting Plan for the 2016 Air Quality Management Plan[10], and Southern California Association of Government's Mitigation Monitoring and Reporting Plan for the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy[11].

Mitigation measures for operational air quality impacts from mobile sources that the Lead Agency should consider in the EIR may include the following:

- Require zero-emissions (ZE) or near-zero emission (NZE) on-road haul trucks such as heavy-duty trucks with natural gas engines that meet the CARB's adopted optional NOx emissions standard at 0.02 grams per brake horsepower-hour (g/bhp-hr), if and when feasible. Given the state's clean truck rules and regulations aiming to accelerate the utilization and market penetration of ZE and NZE trucks such as the Advanced Clean Trucks Rule[12] and the Heavy-Duty Low NOx Omnibus Regulation[13], ZE and NZE trucks will become increasingly more available to use. The Lead Agency should require a phase-in schedule to incentive the use of these cleaner operating trucks to reduce any significant adverse air quality impacts. South Coast AQMD staff is available to discuss the availability of current and upcoming truck technologies and incentive programs with the Lead Agency. At a minimum, require the use of 2010 model year[14] that meet CARB's 2010 engine emissions standards at 0.01 g/bhp-hr of particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions or newer, cleaner trucks. Include environmental analyses to evaluate and identify sufficient electricity and supportive infrastructures in the Energy and Utilities and Service Systems Sections in the CEQA document, where appropriate. Include the requirement in applicable bid documents, purchase orders, and contracts. Operators shall maintain records of all trucks associated with project construction to document that each truck used meets these emission standards, and make the records available for inspection. The Lead Agency should conduct regular inspections to the maximum extent feasible to ensure compliance.
- Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the Final CEQA document. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing this higher activity level.
- Provide electric vehicle (EV) charging stations or at a minimum, provide the electrical infrastructure and electrical panels should be appropriately sized. Electrical hookups should be provided for truckers to plug in any onboard auxiliary equipment.

[10] South Coast AQMD's 2016 Air Quality Management Plan can be found at: http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf (starting on page 86).
[11] Southern California Association of Governments' 2020-2045 RTP/SCS can be found at: https://www.connectsocal.org/Documents/PEIR/certified/Exhibit-A_ConnectSoCal_PEIR.pdf.
[12] CARB. June 25, 2020. *Advanced Clean Trucks Rule.* Accessed at: https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks.
[13] CARB has recently passed a variety of new regulations that require new, cleaner heavy-duty truck technology to be sold and used in state. For example, on August 27, 2020, CARB approved the Heavy-Duty Low NOx Omnibus Regulation, which will require all trucks to meet the adopted emission standard of 0.05 g/hp-hr starting with engine model year 2024. Accessed at: https://ww2.arb.ca.gov/rulemaking/2020/hdomnibuslownox.
[14] CARB adopted the statewide Truck and Bus Regulation in 2010. The Regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent. More information on the CARB's Truck and Bus Regulation is available at: https://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm.

Mitigation measures for operational air quality impacts from other area sources that the Lead Agency should consider in the EIR may include the following:

- Maximize use of solar energy by installing solar energy arrays.
- Use light colored paving and roofing materials.
- Utilize only Energy Star heating, cooling, and lighting devices, and appliances.
- Use of water-based or low VOC cleaning products that go beyond the requirements of South Coast AQMD Rule 1113.

Design considerations for the Proposed Project that the Lead Agency should consider to further reduce air quality and health risk impacts include the following:

- Clearly mark truck routes with trailblazer signs, so that trucks will not travel next to or near sensitive land uses (e.g., residences, schools, day care centers, etc.).
- Design the Proposed Project such that truck entrances and exits are not facing sensitive receptors and trucks will not travel past sensitive land uses to enter or leave the Proposed Project site.
- Design the Proposed Project such that any check-in point for trucks is inside the Proposed Project site to ensure that there are no trucks queuing outside.
- Design the Proposed Project to ensure that truck traffic inside the Proposed Project site is as far away as feasible from sensitive receptors.
- Restrict overnight truck parking in sensitive land uses by providing overnight truck parking inside the Proposed Project site.

On May 7, 2021, South Coast AQMD's Governing Board adopted Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program, and Rule 316 – Fees for Rule 2305. Rules 2305 and 316 are new rules that will reduce regional and local emissions of nitrogen oxides (NOx) and particulate matter (PM), including diesel PM. These emission reductions will reduce public health impacts for communities located near warehouses from mobile sources that are associated with warehouse activities. Also, the emission reductions will help the region attain federal and state ambient air quality standards. Rule 2305 applies to owners and operators of warehouses greater than or equal to 100,000 square feet. Under Rule 2305, operators are subject to an annual WAIRE Points Compliance Obligation that is calculated based on the annual number of truck trips to the warehouse. WAIRE Points can be earned by implementing actions in a prescribed menu in Rule 2305, implementing a site-specific custom plan, or paying a mitigation fee. Warehouse owners are only required to submit limited information reports, but they can opt in to earn Points on behalf of their tenants if they so choose because certain actions to reduce emissions may be better achieved at the warehouse development phase, for instance the installation of solar and charging infrastructure. Rule 316 is a companion fee rule for Rule 2305 to allow South Coast AQMD to recover costs associated with Rule 2305 compliance activities. Since the Proposed Project consists of the development of a 510,110-square-foot building for warehouse uses, the Proposed Project's warehouse owners and operators will be required to comply with Rule 2305 once the warehouse is occupied. Therefore, South Coast AQMD staff recommends that the Lead Agency review South Coast AQMD Rule 2305 to determine the potential WAIRE Points Compliance Obligation for future operators and explore whether additional project requirements and CEQA mitigation measures can be identified and implemented at the Proposed Project that may help future warehouse operators meet their compliance obligation[15]. South Coast AQMD staff is available to answer questions concerning Rule 2305 implementation and compliance by phone or email at (909) 396-3140 or waire-program@aqmd.gov.

[15] South Coast AQMD Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program. Accessed at: http://www.aqmd.gov/docs/default-source/rule-book/reg-xxiii/r2305.pdf.

For implementation guidance documents and compliance and reporting tools, please visit South Coast AQMD's WAIRE Program webpage[16].

South Coast AQMD staff is available to work with the Lead Agency to ensure that air quality, greenhouse gas, and health risk impacts from the Proposed Project are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov.

Sincerely,

Lijin Sun

Lijin Sun
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
LAC220405-03
Control Number

[16] South Coast AQMD WAIRE Program. Accessed at: http://www.aqmd.gov/waire.

Ph: (626) 381-9248
Fx: (626) 389-5414
Em: info@mitchtsailaw.com

Mitchell M. Tsai
Attorney At Law

139 South Hudson Avenue
Suite 200
Pasadena, California 91101

VIA E-MAIL

April 26, 2022

Maria Alicia Duarte, City Clerk
City of Downey
11111 Brookshire Avenue
Downey, CA 90241
Em: cityclerk@downeyca.org

Alfonso S. Hernandez, Senior Planner
City of Downey
11111 Brookshire Avenue
Downey, CA 90241
Em: ashernandez@downeyca.org

RE: Public Records Act and Mailing List Request Regarding Prologis Stewart and Gray Road Warehouse Project (SCH #: 2022030738).

Dear Ms. Duarte and Mr. Hernandez,

On behalf of Southwest Regional Council of Carpenters ("**SWRCC**" or "**Southwest Carpenters"**) and its members, this Office requests that the City of Downey ("**City**") provide any and all information referring or related to the **Prologis Stewart and Gray Road Warehouse Project** ("**Project**") pursuant to the California Public Records Act ("**PRA**"), Cal. Government ("**Gov't**") Code §§ 6250–6270 (collectively "**PRA Request**").

Moreover, SWRCC requests that City provide notice for any and all notices referring or related to the Project issued under the California Environmental Quality Act ("**CEQA**"), Cal Public Resources Code ("**PRC**") § 21000 *et seq*, and the California Planning and Zoning Law ("**Planning and Zoning Law**"), Cal. Gov't Code §§ 65000–65010. California Public Resources Code Sections 21092.2, and 21167(f) and Government Code Section 65092 require agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body.

The Southwest Regional Council of Carpenters is a labor union representing more than 50,000 union carpenters in six states, including California, and has a strong

interest in well-ordered land use planning and addressing the environmental impacts of development projects, such as the Project.

I. PUBLIC RECORDS ACT REQUEST.

Southwest Carpenters is requesting any and all information referring or related to the Project.

The Public Records Act defines the term "public record" broadly as "any writing containing information relating to the conduct of the public's business . . . regardless of physical form and characteristics." Gov't Code § 6252(d). "Records" includes all communications relating to public business regardless of physical form or characteristics, including but not limited to any writing, picture, sound, or symbol, whether paper, magnetic, electronic, text, other media, or written verification of any oral communication. Included in this request are any references in any appointment calendars and applications, phone records, or text records. These "records" are to include, but are not limited to correspondences, e-mails, reports, letters, memorandums, and communications by any employee or elected official of City concerning the Project.

Please include in your response to this request the following examples of "records," as well as any similar physical or electronic forms of communication: any form of writing such as correspondence, electronic mail records ("email"), legal and factual memoranda, facsimiles, photographs, maps, videotapes, film, data, reports, notes, audiotapes, or drawings. Cal. Government Code § 6252(g) (defining a writing to including "any record thereby created, regardless of the manner in which the record has been stored"). Responsive correspondence should include, inter alia, emails, text messages, or any other form of communication regardless of whether they were sent or received on public or privately-owned electronic devices "relating to the conduct of the public's business." Cal. Government Code § 6252(e); *Citizens for Ceres v. Super. Ct.* ("*Ceres*") (2013) 217 Cal. App. 4th 889, 909; *Citizens for Open Gov't v. City of Lodi ("Lodi")* (2012) 205 Cal.App.4th 296, 307, 311; *City of San Jose v. Superior Court* (2017) 2 Cal. 5th 608, 625 (finding that a public employee or officer's "writings about public business are not excluded" from the California Public Records Act "simply because they have been sent, received, or stored in a personal account.") .

This Office requests any and all information referring or related to the Project, including but not limited to:

(1) All Project application materials;

(2) All staff reports and related documents prepared by the City with respect to its compliance with the substantive and procedural requirements of the California Environmental Quality Act, Public Resources Code § 21000 et seq., and the CEQA Guidelines, title 14, California Code of Regulations, § 15000 et seq. (collectively "**CEQA**") and with respect to the action on the Project;

(3) All staff reports and related documents prepared by the City and written testimony or documents submitted by any person relevant to any findings or statement of overriding considerations adopted by the agency pursuant to CEQA;

(4) Any transcript or minutes of the proceedings at which the decisionmaking body of the City heard testimony on, or considered any environmental document on, the Project, and any transcript or minutes of proceedings before any advisory body to the public agency that were presented to the decisionmaking body prior to action on the environmental documents or on the Project;

(5) All notices issued by the City to comply with CEQA or with any other law governing the processing and approval of the Project;

(6) All written comments received in response to, or in connection with, environmental documents prepared for the Project, including responses to the notice of preparation;

(7) All written evidence or correspondence submitted to, or transferred from, the City with respect to compliance with CEQA or with respect to the Project;

(8) Any proposed decisions or findings submitted to the decisionmaking body of the City by its staff, or the Project proponent, Project opponents, or other persons;

(9) The documentation of the final City decision and approvals, including the final environmental impact report, mitigated negative declaration, negative declaration, or notice of exemption, and all documents, in addition to those referenced in paragraph (3), cited

or relied on in the findings or in a statement of overriding considerations adopted pursuant to CEQA;

(10) Any other written materials relevant to the public agency's compliance with CEQA or to its decision on the merits of the Project, including the initial study, any drafts of any environmental document, or portions thereof, that have been released for public review, and copies of studies or other documents relied upon in any environmental document prepared for the Project and either made available to the public during the public review period or included in the City 's files on the Project, and all internal agency communications, including staff notes and memoranda related to the Project or to compliance with CEQA; and

(11) The full written record before any inferior administrative decisionmaking body whose decision was appealed to a superior administrative decisionmaking body prior to the filing of any litigation.

Please respond within 10 days from the date you receive this request as to whether this request specifies identifiable records not exempt from disclosure under the PRA or otherwise privileged or confidential, and are therefore subject to disclosure. This Office understands that this time may be extended up to 14 days for unusual circumstances as provided by Cal. Government Code § 6253(c), and that we will be notified of any extension and the reasons justifying it.

We request that you provide all documents in electronic format and waive any and all fees associated with this Request. SWRCC is a community-based organization. Please notify and obtain express approval from this Office before incurring any duplication costs.

<u>If any of the above requested documents are available online, please provide us with the URL web address at which the documents may be downloaded. If any of the requested documents are retained by the City in electronic computer-readable format such as PDF (portable document format), please provide us with pdf copies of the documents via email, or inform us of the location at which we can copy these documents electronically.</u>

In preparing your response, please bear in mind that you have an obligation under Government Code section 6253.1 to (1) identify all records and information responsive to our request or the purpose of our request; (2) describe the information technology and physical location in which the records exist; and (3) provide suggestions for overcoming any practical basis for denying access to the records or information sought.

In responding to this request, please bear in mind that any exemptions from disclosure you may believe to be applicable are to be narrowly construed. *Marken v. Santa Monica-Malibu Unif. Sch. Dist.* (2012) 202 Cal. App. 4th 1250,1262; and may be further narrowed or eliminated by the adoption of Proposition 59, which amended article I, section 3(b)(2) of the California Constitution to direct that any "statute ... or other authority ... [that] limits the right of access" to "information concerning the conduct of the people's business" must be "narrowly construed."

As for any records that you nonetheless decline to produce on the grounds of an exemption, please bear in mind that the case law under the Public Records Act imposes a duty on you to distinguish between the exempt and the non-exempt portion of any such records, and to attempt in good faith to redact the exempt portion and to disclose the balance of such documents.

Please bear in mind further that should you choose to withhold any document from disclosure, you have a duty under Government Code section 6255, subd. (a) to "justify withholding any record by demonstrating that the record in question is exempt under express provisions" of the Public Records Act or that "the public interest served by not disclosing the record clearly outweighs the public interest served by disclosure of the record."

Finally, please note that you must retain and not destroy any and all records, notwithstanding any local record retention or document destruction policies. As the Court noted in *Golden Door Properties, LLC v. Superior Court of San Diego County* (2020) 53 Cal.App.5th 733 that a public agency "must retain '[a]ll written evidence or correspondence submitted to, or transferred from' . . . with respect to" CEQA compliance or "with respect to the project."

II. NOTICE LIST REQUEST.

We also ask that you put this Office on its notice list for any and all notices issued under the CEQA and the Planning and Zoning Law.

In particular, we request that City send by mail or electronic mail notice of any and all actions or hearings related to activities undertaken, authorized, approved, permitted, licensed, or certified by the City and any of its subdivision for the Project, or supported, in whole or in part, through permits, contracts, grants, subsidies, loans, or other forms of approvals, actions or assistance, including but not limited to the following:

- Notices of any public hearing held in connection with the Project; as well as
- Any and all notices prepared pursuant to CEQA, including but not limited to:
- Notices of determination that an Environmental Impact Report ("EIR") or supplemental EIR is required for a project, prepared pursuant to Public Resources Code Section 21080.4;
- Notices of availability of an EIR or a negative declaration for a project prepared pursuant to Public Resources Code Section 21152 and Section 15087 of Title 14 of the California Code of Regulations;
- Notices of approval or determination to carry out a project, prepared pursuant to Public Resources Code Section 21152 or any other provision of law;
- Notice of approval or certification of any EIR or negative declaration prepared pursuant to Public Resources Code Section 21152 or any other provision of law;
- Notice of exemption from CEQA prepared pursuant to Public Resources Code section 21152 or any other provision of law; and
- Notice of any Final EIR prepared pursuant to CEQA.

This Office is requesting notices of any approvals or public hearings under CEQA and the California Planning and Zoning Law. This request is filed pursuant to California Public Resources Code Sections 21092.2, and 21167(f) and Government Code Section 65092 requiring agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body.

Please send notice by regular and electronic mail to:

Mitchell M. Tsai, Attorney At Law
139 South Hudson Avenue
Suite 200
Pasadena, California 91101
Em: mitch@mitchtsailaw.com
Em: jason@mitchtsailaw.com
Em: brandon@mitchtsailaw.com
Em: rebekah@mitchtsailaw.com
Em: maria@mitchtsailaw.com
Em: hind@mitchtsailaw.com
Em: steven@mitchtsailaw.com
Em: malou@mitchtsailaw.com
Em: info@mitchtsailaw.com

We look forward to working with you. If you have any questions or concerns, please do not hesitate to contact our Office.

Sincerely,

Mitchell M. Tsai
Attorneys for Southwest Regional Council
of Carpenters

P: (626) 381-9248
F: (626) 389-5414
E: info@mitchtsailaw.com

Mitchell M. Tsai
Attorney At Law

139 South Hudson Avenue
Suite 200
Pasadena, California 91101

VIA E-MAIL

April 27, 2022

Alfonso S. Hernandez, Senior Planner
City of Downey
11111 Brookshire Avenue
Downey, CA 90241
Em: ashernandez@downeyca.org

Maria Alicia Duarte, City Clerk
City of Downey
11111 Brookshire Ave
Downey, CA 90241
Em: cityclerk@downeyca.org

RE: City of Downey's Prologis Stewart and Gray Road Warehouse Project (SCH#: 2022030738).

Dear Alfonso Hernandez and Maria Alicia Duarte,

On behalf of the Southwest Regional Council of Carpenters ("**SWRCC**" or "**Southwest Carpenters**"), my Office is submitting these comments on the City of Downey's ("**City**" or "**Lead Agency**") Notice of Preparation of a Draft Environmental Impact Report ("**NOP**") for the Prologis Stewart and Gray Road Warehouse Project (SCH#: 2022030738) ("**Project**").

The Southwest Carpenters is a labor union representing more than 50,000 union carpenters in six states, including California, and has a strong interest in well-ordered land use planning, addressing the environmental impacts of development projects and equitable economic development.

Individual members of the Southwest live, work and recreate in the area and surrounding communities and would be directly affected by the Project's environmental impacts.

SWRCC expressly reserve the right to supplement these comments at or prior to hearings on the Project, and at any later hearings and proceedings related to this

Project. Cal. Gov. Code § 65009(b); Cal. Pub. Res. Code § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal. App. 4th 1184, 1199-1203; see *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal. App. 4th 1109, 1121.

SWRCC incorporate by reference all comments raising issues regarding the environmental impact report ("**EIR**") submitted prior to certification of the EIR for the Project. *Citizens for Clean Energy v City of Woodland* (2014) 225 Cal. App. 4th 173, 191 (finding that any party who has objected to the Project's environmental documentation may assert any issue timely raised by other parties).

Moreover, SWRCC request that the Lead Agency provide notice for any and all notices referring or related to the Project issued under the California Environmental Quality Act ("**CEQA**"), Cal Public Resources Code ("**PRC**") § 21000 *et seq*, and the California Planning and Zoning Law ("**Planning and Zoning Law**"), Cal. Gov't Code §§ 65000–65010. California Public Resources Code Sections 21092.2, and 21167(f) and Government Code Section 65092 require agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body.

The City should require community benefits such as requiring local hire and use of a skilled and trained workforce to build the Project. The City should require the use of workers who have graduated from a Joint Labor Management apprenticeship training program approved by the State of California, or have at least as many hours of on-the-job experience in the applicable craft which would be required to graduate from such a state approved apprenticeship training program or who are registered apprentices in an apprenticeship training program approved by the State of California.

Community benefits such as local hire and skilled and trained workforce requirements can also be helpful to reduce environmental impacts and improve the positive economic impact of the Project. Local hire provisions requiring that a certain percentage of workers reside within 10 miles or less of the Project Site can reduce the length of vendor trips, reduce greenhouse gas emissions and providing localized economic benefits. As environmental consultants Matt Hagemann and Paul E. Rosenfeld note:

> [A]ny local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the

> reduction would vary based on the location and urbanization level of the project site.

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling.

Skilled and trained workforce requirements promote the development of skilled trades that yield sustainable economic development. As the California Workforce Development Board and the UC Berkeley Center for Labor Research and Education concluded:

> . . . labor should be considered an investment rather than a cost – and investments in growing, diversifying, and upskilling California's workforce can positively affect returns on climate mitigation efforts. In other words, well trained workers are key to delivering emissions reductions and moving California closer to its climate targets.[1]

Recently, on May 7, 2021, the South Coast Air Quality Management District found that that the "[u]se of a local state-certified apprenticeship program or a skilled and trained workforce with a local hire component" can result in air pollutant reductions.[2]

Cities are increasingly adopting local skilled and trained workforce policies and requirements into general plans and municipal codes. For example, the City of Hayward 2040 General Plan requires the City to "promote local hiring . . . to help achieve a more positive jobs-housing balance, and reduce regional commuting, gas consumption, and greenhouse gas emissions."[3]

In fact, the City of Hayward has gone as far as to adopt a Skilled Labor Force policy into its Downtown Specific Plan and municipal code, requiring developments in its Downtown area to requiring that the City "[c]ontribute to the stabilization of regional

---

[1] California Workforce Development Board (2020) Putting California on the High Road: A Jobs and Climate Action Plan for 2030 at p. ii, *available at* https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf.

[2] South Coast Air Quality Management District (May 7, 2021) Certify Final Environmental Assessment and Adopt Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions Program, and Proposed Rule 316 – Fees for Rule 2305, Submit Rule 2305 for Inclusion Into the SIP, and Approve Supporting Budget Actions, *available at* http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10.

[3] City of Hayward (2014) Hayward 2040 General Plan Policy Document at p. 3-99, *available at* https://www.hayward-ca.gov/sites/default/files/documents/General_Plan_FINAL.pdf.

construction markets by spurring applicants of housing and nonresidential developments to require contractors to utilize apprentices from state-approved, joint labor-management training programs, . . .”[4] In addition, the City of Hayward requires all projects 30,000 square feet or larger to “utilize apprentices from state-approved, joint labor-management training programs.”[5]

Locating jobs closer to residential areas can have significant environmental benefits. As the California Planning Roundtable noted in 2008:

> People who live and work in the same jurisdiction would be more likely to take transit, walk, or bicycle to work than residents of less balanced communities and their vehicle trips would be shorter. Benefits would include potential reductions in both vehicle miles traveled and vehicle hours traveled.[6]

In addition, local hire mandates as well as skill training are critical facets of a strategy to reduce vehicle miles traveled. As planning experts Robert Cervero and Michael Duncan noted, simply placing jobs near housing stock is insufficient to achieve VMT reductions since the skill requirements of available local jobs must be matched to those held by local residents.[7] Some municipalities have tied local hire and skilled and trained workforce policies to local development permits to address transportation issues. As Cervero and Duncan note:

> In nearly built-out Berkeley, CA, the approach to balancing jobs and housing is to create local jobs rather than to develop new housing.” The city’s First Source program encourages businesses to hire local residents, especially for entry- and intermediate-level jobs, and sponsors vocational training to ensure residents are employment-ready. While the program is voluntary, some 300 businesses have used it to date, placing more than

---

[4] City of Hayward (2019) Hayward Downtown Specific Plan at p. 5-24, *available at* https://www.hayward-ca.gov/sites/default/files/Hayward%20Downtown%20Specific%20Plan.pdf.

[5] City of Hayward Municipal Code, Chapter 10, § 28.5.3.020(C).

[6] California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, *available at* https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf.

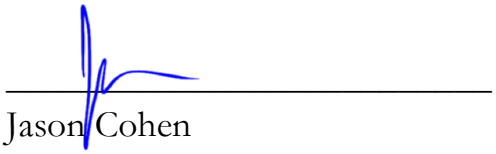
[7] Cervero, Robert and Duncan, Michael (2006) Which Reduces Vehicle Travel More: Jobs-Housing Balance or Retail-Housing Mixing? Journal of the American Planning Association 72 (4), 475-490, 482, *available at* http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf.

> 3,000 city residents in local jobs since it was launched in 1986. When needed, these carrots are matched by sticks, since the city is not shy about negotiating corporate participation in First Source as a condition of approval for development permits.

The City should consider utilizing skilled and trained workforce policies and requirements to benefit the local area economically and mitigate greenhouse gas, air quality and transportation impacts.

If the City has any questions or concerns, feel free to contact my Office.

Sincerely,



Jason Cohen
Attorneys for Southwest Regional
Council of Carpenters

Attached:

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling (Exhibit A);

Air Quality and GHG Expert Paul Rosenfeld CV (Exhibit B); and

Air Quality and GHG Expert Matt Hagemann CV (Exhibit C).

EXHIBIT A

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

2656 29th Street, Suite 201
Santa Monica, CA 90405

Matt Hagemann, P.G, C.Hg.
(949) 887-9013
mhagemann@swape.com

Paul E. Rosenfeld, PhD
(310) 795-2335
prosenfeld@swape.com

March 8, 2021

Mitchell M. Tsai
155 South El Molino, Suite 104
Pasadena, CA 91101

Subject: Local Hire Requirements and Considerations for Greenhouse Gas Modeling

Dear Mr. Tsai,

Soil Water Air Protection Enterprise ("SWAPE") is pleased to provide the following draft technical report explaining the significance of worker trips required for construction of land use development projects with respect to the estimation of greenhouse gas ("GHG") emissions. The report will also discuss the potential for local hire requirements to reduce the length of worker trips, and consequently, reduced or mitigate the potential GHG impacts.

Worker Trips and Greenhouse Gas Calculations

The California Emissions Estimator Model ("CalEEMod") is a "statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects."[1] CalEEMod quantifies construction-related emissions associated with land use projects resulting from off-road construction equipment; on-road mobile equipment associated with workers, vendors, and hauling; fugitive dust associated with grading, demolition, truck loading, and on-road vehicles traveling along paved and unpaved roads; and architectural coating activities; and paving.[2]

The number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.[3]

[1] "California Emissions Estimator Model." CAPCOA, 2017, *available at:* http://www.aqmd.gov/caleemod/home.
[2] "California Emissions Estimator Model." CAPCOA, 2017, *available at:* http://www.aqmd.gov/caleemod/home.
[3] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

Specifically, the number and length of vehicle trips is utilized to estimate the vehicle miles travelled ("VMT") associated with construction. Then, utilizing vehicle-class specific EMFAC 2014 emission factors, CalEEMod calculates the vehicle exhaust, evaporative, and dust emissions resulting from construction-related VMT, including personal vehicles for worker commuting.[4]

Specifically, in order to calculate VMT, CalEEMod multiplies the average daily trip rate by the average overall trip length (see excerpt below):

> "$VMT_d = \Sigma(\text{Average Daily Trip Rate}_i * \text{Average Overall Trip Length}_i)_n$
>
> Where:
>
> n = Number of land uses being modeled."[5]

Furthermore, to calculate the on-road emissions associated with worker trips, CalEEMod utilizes the following equation (see excerpt below):

> "$\text{Emissions}_{pollutant} = VMT * EF_{running,pollutant}$
>
> Where:
>
> $\text{Emissions}_{pollutant}$ = emissions from vehicle running for each pollutant
>
> VMT = vehicle miles traveled
>
> $EF_{running,pollutant}$ = emission factor for running emissions."[6]

Thus, there is a direct relationship between trip length and VMT, as well as a direct relationship between VMT and vehicle running emissions. In other words, when the trip length is increased, the VMT and vehicle running emissions increase as a result. Thus, vehicle running emissions can be reduced by decreasing the average overall trip length, by way of a local hire requirement or otherwise.

Default Worker Trip Parameters and Potential Local Hire Requirements

As previously discussed, the number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.[7] In order to understand how local hire requirements and associated worker trip length reductions impact GHG emissions calculations, it is important to consider the CalEEMod default worker trip parameters. CalEEMod provides recommended default values based on site-specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but the California Environmental Quality Act ("CEQA") requires that such changes be justified by substantial evidence.[8] The default number of construction-related worker trips is calculated by multiplying the

[4] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14-15.
[5] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 23.
[6] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.
[7] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.
[8] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 1, 9.

number of pieces of equipment for all phases by 1.25, with the exception of worker trips required for the building construction and architectural coating phases.[9] Furthermore, the worker trip vehicle class is a 50/25/25 percent mix of light duty autos, light duty truck class 1 and light duty truck class 2, respectively."[10] Finally, the default worker trip length is consistent with the length of the operational home-to-work vehicle trips.[11] The operational home-to-work vehicle trip lengths are:

> "[B]ased on the *location* and *urbanization* selected on the project characteristic screen. These values were *supplied by the air districts or use a default average for the state*. Each district (or county) also assigns trip lengths for urban and rural settings" (emphasis added). [12]

Thus, the default worker trip length is based on the location and urbanization level selected by the User when modeling emissions. The below table shows the CalEEMod default rural and urban worker trip lengths by air basin (see excerpt below and Attachment A).[13]

Worker Trip Length by Air Basin		
Air Basin	**Rural (miles)**	**Urban (miles)**
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	**16.47**	**11.17**
Minimum	**10.80**	**10.80**
Maximum	**19.80**	**14.70**
Range	**9.00**	**3.90**

[9] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.
[10] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.
[11] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14.
[12] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 21.
[13] "Appendix D Default Data Tables." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-84 – D-86.

As demonstrated above, default rural worker trip lengths for air basins in California vary from 10.8- to 19.8-miles, with an average of 16.47 miles. Furthermore, default urban worker trip lengths vary from 10.8- to 14.7-miles, with an average of 11.17 miles. Thus, while default worker trip lengths vary by location, default urban worker trip lengths tend to be shorter in length. Based on these trends evident in the CalEEMod default worker trip lengths, we can reasonably assume that the efficacy of a local hire requirement is especially dependent upon the urbanization of the project site, as well as the project location.

Practical Application of a Local Hire Requirement and Associated Impact

To provide an example of the potential impact of a local hire provision on construction-related GHG emissions, we estimated the significance of a local hire provision for the Village South Specific Plan ("Project") located in the City of Claremont ("City"). The Project proposed to construct 1,000 residential units, 100,000-SF of retail space, 45,000-SF of office space, as well as a 50-room hotel, on the 24-acre site. The Project location is classified as Urban and lies within the Los Angeles-South Coast County. As a result, the Project has a default worker trip length of 14.7 miles.[14] In an effort to evaluate the potential for a local hire provision to reduce the Project's construction-related GHG emissions, we prepared an updated model, reducing all worker trip lengths to 10 miles (see Attachment B). Our analysis estimates that if a local hire provision with a 10-mile radius were to be implemented, the GHG emissions associated with Project construction would decrease by approximately 17% (see table below and Attachment C).

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO_2e)	3,623
Amortized Construction GHG Emissions (MT CO_2e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,024
Amortized Construction GHG Emissions (MT CO_2e/year)	100.80
% Decrease in Construction-related GHG Emissions	***17%***

As demonstrated above, by implementing a local hire provision requiring 10 mile worker trip lengths, the Project could reduce potential GHG emissions associated with construction worker trips. More broadly, any local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

This serves as an example of the potential impacts of local hire requirements on estimated project-level GHG emissions, though it does not indicate that local hire requirements would result in reduced construction-related GHG emission for all projects. As previously described, the significance of a local hire requirement depends on the worker trip length enforced and the default worker trip length for the project's urbanization level and location.

[14] "Appendix D Default Data Tables." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-85.

Disclaimer

SWAPE has received limited discovery. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,

Matt Hagemann, P.G., C.Hg.

Paul E. Rosenfeld, Ph.D.

Location Type	Location Name	Rural H-W (miles)	Urban H-W (miles)
Air Basin	Great Basin	16.8	10.8
Air Basin	Lake County	16.8	10.8
Air Basin	Lake Tahoe	16.8	10.8
Air Basin	Mojave Desert	16.8	10.8
Air Basin	Mountain	16.8	10.8
Air Basin	North Central	17.1	12.3
Air Basin	North Coast	16.8	10.8
Air Basin	Northeast	16.8	10.8
Air Basin	Sacramento	16.8	10.8
Air Basin	Salton Sea	14.6	11
Air Basin	San Diego	16.8	10.8
Air Basin	San Francisco	10.8	10.8
Air Basin	San Joaquin	16.8	10.8
Air Basin	South Central	16.8	10.8
Air Basin	South Coast	19.8	14.7
Air District	Amador County	16.8	10.8
Air District	Antelope Valley	16.8	10.8
Air District	Bay Area AQMD	10.8	10.8
Air District	Butte County	12.54	12.54
Air District	Calaveras	16.8	10.8
Air District	Colusa County	16.8	10.8
Air District	El Dorado	16.8	10.8
Air District	Feather River	16.8	10.8
Air District	Glenn County	16.8	10.8
Air District	Great Basin	16.8	10.8
Air District	Imperial County	10.2	7.3
Air District	Kern County	16.8	10.8
Air District	Lake County	16.8	10.8
Air District	Lassen County	16.8	10.8
Air District	Mariposa	16.8	10.8
Air District	Mendocino	16.8	10.8
Air District	Modoc County	16.8	10.8
Air District	Mojave Desert	16.8	10.8
Air District	Monterey Bay	16.8	10.8
Air District	North Coast	16.8	10.8
Air District	Northern Sierra	16.8	10.8
Air District	Northern	16.8	10.8
Air District	Placer County	16.8	10.8
Air District	Sacramento	15	10

Air District	San Diego	16.8	10.8
Air District	San Joaquin	16.8	10.8
Air District	San Luis Obispo	13	13
Air District	Santa Barbara	8.3	8.3
Air District	Shasta County	16.8	10.8
Air District	Siskiyou County	16.8	10.8
Air District	South Coast	19.8	14.7
Air District	Tehama County	16.8	10.8
Air District	Tuolumne	16.8	10.8
Air District	Ventura County	16.8	10.8
Air District	Yolo/Solano	15	10
County	Alameda	10.8	10.8
County	Alpine	16.8	10.8
County	Amador	16.8	10.8
County	Butte	12.54	12.54
County	Calaveras	16.8	10.8
County	Colusa	16.8	10.8
County	Contra Costa	10.8	10.8
County	Del Norte	16.8	10.8
County	El Dorado-Lake	16.8	10.8
County	El Dorado-	16.8	10.8
County	Fresno	16.8	10.8
County	Glenn	16.8	10.8
County	Humboldt	16.8	10.8
County	Imperial	10.2	7.3
County	Inyo	16.8	10.8
County	Kern-Mojave	16.8	10.8
County	Kern-San	16.8	10.8
County	Kings	16.8	10.8
County	Lake	16.8	10.8
County	Lassen	16.8	10.8
County	Los Angeles-	16.8	10.8
County	Los Angeles-	19.8	14.7
County	Madera	16.8	10.8
County	Marin	10.8	10.8
County	Mariposa	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Merced	16.8	10.8
County	Modoc	16.8	10.8
County	Mono	16.8	10.8
County	Monterey	16.8	10.8
County	Napa	10.8	10.8

County	Nevada	16.8	10.8
County	Orange	19.8	14.7
County	Placer-Lake	16.8	10.8
County	Placer-Mountain	16.8	10.8
County	Placer-	16.8	10.8
County	Plumas	16.8	10.8
County	Riverside-	16.8	10.8
County	Riverside-	19.8	14.7
County	Riverside-Salton	14.6	11
County	Riverside-South	19.8	14.7
County	Sacramento	15	10
County	San Benito	16.8	10.8
County	San Bernardino-	16.8	10.8
County	San Bernardino-	19.8	14.7
County	San Diego	16.8	10.8
County	San Francisco	10.8	10.8
County	San Joaquin	16.8	10.8
County	San Luis Obispo	13	13
County	San Mateo	10.8	10.8
County	Santa Barbara-	8.3	8.3
County	Santa Barbara-	8.3	8.3
County	Santa Clara	10.8	10.8
County	Santa Cruz	16.8	10.8
County	Shasta	16.8	10.8
County	Sierra	16.8	10.8
County	Siskiyou	16.8	10.8
County	Solano-	15	10
County	Solano-San	16.8	10.8
County	Sonoma-North	16.8	10.8
County	Sonoma-San	10.8	10.8
County	Stanislaus	16.8	10.8
County	Sutter	16.8	10.8
County	Tehama	16.8	10.8
County	Trinity	16.8	10.8
County	Tulare	16.8	10.8
County	Tuolumne	16.8	10.8
County	Ventura	16.8	10.8
County	Yolo	15	10
County	Yuba	16.8	10.8
Statewide	Statewide	16.8	10.8

Worker Trip Length by Air Basin		
Air Basin	**Rural (miles)**	**Urban (miles)**
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	**16.47**	**11.17**
Mininum	**10.80**	**10.80**
Maximum	**19.80**	**14.70**
Range	**9.00**	**3.90**

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1969	213.1969	0.0601	0.0000	214.6993
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.6826	1,721.6826	0.1294	0.0000	1,724.9187
2023	0.6148	3.3649	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.5295	1,627.5295	0.1185	0.0000	1,630.4925
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9078	52.9078	8.0200e-003	0.0000	53.1082
Maximum	**4.1619**	**4.1142**	**6.1625**	**0.0189**	**1.3058**	**0.1201**	**1.4259**	**0.3460**	**0.1128**	**0.4588**	**0.0000**	**1,721.6826**	**1,721.6826**	**0.1294**	**0.0000**	**1,724.9187**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1967	213.1967	0.0601	0.0000	214.6991
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.6823	1,721.6823	0.1294	0.0000	1,724.9183
2023	0.6148	3.3648	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.5291	1,627.5291	0.1185	0.0000	1,630.4921
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9077	52.9077	8.0200e-003	0.0000	53.1082
Maximum	**4.1619**	**4.1142**	**6.1625**	**0.0189**	**1.3058**	**0.1201**	**1.4259**	**0.3460**	**0.1128**	**0.4588**	**0.0000**	**1,721.6823**	**1,721.6823**	**0.1294**	**0.0000**	**1,724.9183**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-1-2021**	**11-30-2021**	1.4103	1.4103
2	**12-1-2021**	**2-28-2022**	1.3613	1.3613
3	**3-1-2022**	**5-31-2022**	1.1985	1.1985
4	**6-1-2022**	**8-31-2022**	1.1921	1.1921
5	**9-1-2022**	**11-30-2022**	1.1918	1.1918
6	**12-1-2022**	**2-28-2023**	1.0774	1.0774
7	**3-1-2023**	**5-31-2023**	1.0320	1.0320
8	**6-1-2023**	**8-31-2023**	1.0260	1.0260

9	**9-1-2023**	**11-30-2023**	1.0265	1.0265
10	**12-1-2023**	**2-29-2024**	2.8857	2.8857
11	**3-1-2024**	**5-31-2024**	1.6207	1.6207
		Highest	2.8857	2.8857

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	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

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	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

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

3.0 Construction Detail

Construction Phase

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0012**	**51.0012**	**0.0144**	**0.0000**	**51.3601**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	**2.9000e-003**	**0.0641**	**0.0233**	**2.0000e-004**	**6.4100e-003**	**2.1000e-004**	**6.6200e-003**	**1.7300e-003**	**2.0000e-004**	**1.9300e-003**	**0.0000**	**19.6816**	**19.6816**	**1.2800e-003**	**0.0000**	**19.7136**

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					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0011**	**51.0011**	**0.0144**	**0.0000**	**51.3600**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	**2.9000e-003**	**0.0641**	**0.0233**	**2.0000e-004**	**6.4100e-003**	**2.1000e-004**	**6.6200e-003**	**1.7300e-003**	**2.0000e-004**	**1.9300e-003**	**0.0000**	**19.6816**	**19.6816**	**1.2800e-003**	**0.0000**	**19.7136**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7061**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7060**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5405**	**103.5405**	**0.0335**	**0.0000**	**104.3776**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
Total	**1.6400e-003**	**1.2700e-003**	**0.0144**	**4.0000e-005**	**4.1600e-003**	**3.0000e-005**	**4.2000e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.7579**	**3.7579**	**1.1000e-004**	**0.0000**	**3.7607**

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					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5403**	**103.5403**	**0.0335**	**0.0000**	**104.3775**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
Total	**1.6400e-003**	**1.2700e-003**	**0.0144**	**4.0000e-005**	**4.1600e-003**	**3.0000e-005**	**4.2000e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.7579**	**3.7579**	**1.1000e-004**	**0.0000**	**3.7607**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684
Total	**2.8000e-004**	**2.1000e-004**	**2.4400e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.7000e-004**	**2.0000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**0.6679**	**0.6679**	**2.0000e-005**	**0.0000**	**0.6684**

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					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684
Total	**2.8000e-004**	**2.1000e-004**	**2.4400e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.7000e-004**	**2.0000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**0.6679**	**0.6679**	**2.0000e-005**	**0.0000**	**0.6684**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1324**	**293.1324**	**0.0702**	**0.0000**	**294.8881**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	**0.4616**	**2.0027**	**3.9885**	**0.0152**	**1.2243**	**0.0121**	**1.2363**	**0.3278**	**0.0112**	**0.3390**	**0.0000**	**1,408.7952**	**1,408.7952**	**0.0530**	**0.0000**	**1,410.1208**

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	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1321**	**293.1321**	**0.0702**	**0.0000**	**294.8877**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	**0.4616**	**2.0027**	**3.9885**	**0.0152**	**1.2243**	**0.0121**	**1.2363**	**0.3278**	**0.0112**	**0.3390**	**0.0000**	**1,408.7952**	**1,408.7952**	**0.0530**	**0.0000**	**1,410.1208**

3.5 Building Construction - 2023

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	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2789**	**286.2789**	**0.0681**	**0.0000**	**287.9814**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.3753	0.2708	3.1696	0.0101	1.0840	8.4100e-003	1.0924	0.2879	7.7400e-003	0.2957	0.0000	909.3439	909.3439	0.0234	0.0000	909.9291
Total	**0.4135**	**1.5218**	**3.5707**	**0.0144**	**1.1953**	**9.8700e-003**	**1.2051**	**0.3200**	**9.1400e-003**	**0.3292**	**0.0000**	**1,327.3369**	**1,327.3369**	**0.0462**	**0.0000**	**1,328.4916**

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	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2785**	**286.2785**	**0.0681**	**0.0000**	**287.9811**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.3753	0.2708	3.1696	0.0101	1.0840	8.4100e-003	1.0924	0.2879	7.7400e-003	0.2957	0.0000	909.3439	909.3439	0.0234	0.0000	909.9291
Total	**0.4135**	**1.5218**	**3.5707**	**0.0144**	**1.1953**	**9.8700e-003**	**1.2051**	**0.3200**	**9.1400e-003**	**0.3292**	**0.0000**	**1,327.3369**	**1,327.3369**	**0.0462**	**0.0000**	**1,328.4916**

3.6 Paving - 2023

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	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968
Total	**3.7000e-004**	**2.7000e-004**	**3.1200e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8963**	**0.8963**	**2.0000e-005**	**0.0000**	**0.8968**

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	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968
Total	**3.7000e-004**	**2.7000e-004**	**3.1200e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8963**	**0.8963**	**2.0000e-005**	**0.0000**	**0.8968**

3.6 Paving - 2024

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	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706
Total	**5.9000e-004**	**4.1000e-004**	**4.9200e-003**	**2.0000e-005**	**1.8100e-003**	**1.0000e-005**	**1.8200e-003**	**4.8000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.4697**	**1.4697**	**4.0000e-005**	**0.0000**	**1.4706**

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	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706
Total	**5.9000e-004**	**4.1000e-004**	**4.9200e-003**	**2.0000e-005**	**1.8100e-003**	**1.0000e-005**	**1.8200e-003**	**4.8000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.4697**	**1.4697**	**4.0000e-005**	**0.0000**	**1.4706**

3.7 Architectural Coating - 2024

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	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	6.9900e-003	0.0835	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558
Total	**0.0101**	**6.9900e-003**	**0.0835**	**2.8000e-004**	**0.0307**	**2.3000e-004**	**0.0309**	**8.1500e-003**	**2.2000e-004**	**8.3700e-003**	**0.0000**	**24.9407**	**24.9407**	**6.1000e-004**	**0.0000**	**24.9558**

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	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	6.9900e-003	0.0835	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558
Total	**0.0101**	**6.9900e-003**	**0.0835**	**2.8000e-004**	**0.0307**	**2.3000e-004**	**0.0309**	**8.1500e-003**	**2.2000e-004**	**8.3700e-003**	**0.0000**	**24.9407**	**24.9407**	**6.1000e-004**	**0.0000**	**24.9558**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
NaturalGas Mitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
NaturalGas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

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					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

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	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

7.0 Water Detail

7.1 Mitigation Measures Water

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	585.8052	3.0183	0.0755	683.7567
Unmitigated	585.8052	3.0183	0.0755	683.7567

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	207.8079	12.2811	0.0000	514.8354
Unmitigated	207.8079	12.2811	0.0000	514.8354

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2769	46.4588	31.6840	0.0643	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,234.7974	6,234.7974	1.9495	0.0000	6,283.5352
2022	5.3304	38.8967	49.5629	0.1517	9.8688	1.6366	10.7727	3.6558	1.5057	5.1615	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288
2023	4.8957	26.3317	46.7567	0.1472	9.8688	0.7794	10.6482	2.6381	0.7322	3.3702	0.0000	14,807.5269	14,807.5269	1.0250	0.0000	14,833.1521
2024	237.1630	9.5575	15.1043	0.0244	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,361.3989	2,361.3989	0.7177	0.0000	2,379.3421
Maximum	**237.1630**	**46.4588**	**49.5629**	**0.1517**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**15,251.5674**	**15,251.5674**	**1.9503**	**0.0000**	**15,278.5288**

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					
2021	4.2769	46.4588	31.6840	0.0643	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,234.7974	6,234.7974	1.9495	0.0000	6,283.5352
2022	5.3304	38.8967	49.5629	0.1517	9.8688	1.6366	10.7727	3.6558	1.5057	5.1615	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288
2023	4.8957	26.3317	46.7567	0.1472	9.8688	0.7794	10.6482	2.6381	0.7322	3.3702	0.0000	14,807.5269	14,807.5269	1.0250	0.0000	14,833.1520
2024	237.1630	9.5575	15.1043	0.0244	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,361.3989	2,361.3989	0.7177	0.0000	2,379.3421
Maximum	**237.1630**	**46.4588**	**49.5629**	**0.1517**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**15,251.5674**	**15,251.5674**	**1.9503**	**0.0000**	**15,278.5288**

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

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	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.1916**	**4.1394**	**1.5644**	**0.0136**	**0.4346**	**0.0139**	**0.4485**	**0.1176**	**0.0133**	**0.1309**		**1,463.0568**	**1,463.0568**	**0.0927**		**1,465.3750**

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					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.1916**	**4.1394**	**1.5644**	**0.0136**	**0.4346**	**0.0139**	**0.4485**	**0.1176**	**0.0133**	**0.1309**		**1,463.0568**	**1,463.0568**	**0.0927**		**1,465.3750**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0772**	**0.0530**	**0.7250**	**2.0600e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**204.9786**	**204.9786**	**6.0400e-003**		**205.1296**

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	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0772**	**0.0530**	**0.7250**	**2.0600e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**204.9786**	**204.9786**	**6.0400e-003**		**205.1296**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.0803**	**0.0532**	**0.7432**	**2.2100e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**219.7425**	**219.7425**	**6.0600e-003**		**219.8941**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.0803**	**0.0532**	**0.7432**	**2.2100e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**219.7425**	**219.7425**	**6.0600e-003**		**219.8941**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,800.6857	8,800.6857	0.2429		8,806.7582
Total	**3.6242**	**15.3350**	**33.1995**	**0.1247**	**9.8688**	**0.0949**	**9.9637**	**2.6381**	**0.0883**	**2.7263**		**12,697.2339**	**12,697.2339**	**0.4665**		**12,708.8966**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,800.6857	8,800.6857	0.2429		8,806.7582
Total	**3.6242**	**15.3350**	**33.1995**	**0.1247**	**9.8688**	**0.0949**	**9.9637**	**2.6381**	**0.0883**	**2.7263**		**12,697.2339**	**12,697.2339**	**0.4665**		**12,708.8966**

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	3.0203	1.9287	27.4113	0.0851	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		8,478.4408	8,478.4408	0.2190		8,483.9160
Total	**3.3229**	**11.9468**	**30.5127**	**0.1203**	**9.8688**	**0.0797**	**9.9485**	**2.6381**	**0.0738**	**2.7118**		**12,252.3170**	**12,252.3170**	**0.4172**		**12,262.7460**

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	3.0203	1.9287	27.4113	0.0851	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		8,478.4408	8,478.4408	0.2190		8,483.9160
Total	**3.3229**	**11.9468**	**30.5127**	**0.1203**	**9.8688**	**0.0797**	**9.9485**	**2.6381**	**0.0738**	**2.7118**		**12,252.3170**	**12,252.3170**	**0.4172**		**12,262.7460**

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.0566**	**0.0361**	**0.5133**	**1.5900e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**158.7723**	**158.7723**	**4.1000e-003**		**158.8748**

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.0566**	**0.0361**	**0.5133**	**1.5900e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**158.7723**	**158.7723**	**4.1000e-003**		**158.8748**

3.6 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
Total	**0.0535**	**0.0329**	**0.4785**	**1.5400e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**153.8517**	**153.8517**	**3.7600e-003**		**153.9458**

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
Total	**0.0535**	**0.0329**	**0.4785**	**1.5400e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**153.8517**	**153.8517**	**3.7600e-003**		**153.9458**

3.7 Architectural Coating - 2024

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,641.0852	1,641.0852	0.0401		1,642.0886
Total	**0.5707**	**0.3513**	**5.1044**	**0.0165**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,641.0852**	**1,641.0852**	**0.0401**		**1,642.0886**

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,641.0852	1,641.0852	0.0401		1,642.0886
Total	**0.5707**	**0.3513**	**5.1044**	**0.0165**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,641.0852**	**1,641.0852**	**0.0401**		**1,642.0886**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

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					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

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					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2865	46.4651	31.6150	0.0642	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,221.4937	6,221.4937	1.9491	0.0000	6,270.2214
2022	5.7218	38.9024	47.3319	0.1455	9.8688	1.6366	10.7736	3.6558	1.5057	5.1615	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663
2023	5.2705	26.4914	44.5936	0.1413	9.8688	0.7800	10.6488	2.6381	0.7328	3.3708	0.0000	14,210.3424	14,210.3424	1.0230	0.0000	14,235.9160
2024	237.2328	9.5610	15.0611	0.0243	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,352.4178	2,352.4178	0.7175	0.0000	2,370.3550
Maximum	**237.2328**	**46.4651**	**47.3319**	**0.1455**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**14,630.3099**	**14,630.3099**	**1.9499**	**0.0000**	**14,657.2663**

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					
2021	4.2865	46.4651	31.6150	0.0642	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,221.4937	6,221.4937	1.9491	0.0000	6,270.2214
2022	5.7218	38.9024	47.3319	0.1455	9.8688	1.6366	10.7736	3.6558	1.5057	5.1615	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663
2023	5.2705	26.4914	44.5936	0.1413	9.8688	0.7800	10.6488	2.6381	0.7328	3.3708	0.0000	14,210.3424	14,210.3424	1.0230	0.0000	14,235.9160
2024	237.2328	9.5610	15.0611	0.0243	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,352.4178	2,352.4178	0.7175	0.0000	2,370.3550
Maximum	**237.2328**	**46.4651**	**47.3319**	**0.1455**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**14,630.3099**	**14,630.3099**	**1.9499**	**0.0000**	**14,657.2663**

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

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	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.2019**	**4.1943**	**1.5706**	**0.0133**	**0.4346**	**0.0141**	**0.4487**	**0.1176**	**0.0135**	**0.1311**		**1,430.6932**	**1,430.6932**	**0.0955**		**1,433.0812**

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					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.2019**	**4.1943**	**1.5706**	**0.0133**	**0.4346**	**0.0141**	**0.4487**	**0.1176**	**0.0135**	**0.1311**		**1,430.6932**	**1,430.6932**	**0.0955**		**1,433.0812**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.0858**	**0.0587**	**0.6629**	**1.9400e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**193.0052**	**193.0052**	**5.6800e-003**		**193.1472**

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	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.0858**	**0.0587**	**0.6629**	**1.9400e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**193.0052**	**193.0052**	**5.6800e-003**		**193.1472**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.0896**	**0.0589**	**0.6784**	**2.0800e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**206.9139**	**206.9139**	**5.7000e-003**		**207.0563**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.0896**	**0.0589**	**0.6784**	**2.0800e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**206.9139**	**206.9139**	**5.7000e-003**		**207.0563**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,286.9013	8,286.9013	0.2282		8,292.6058
Total	**4.0156**	**15.5266**	**30.9685**	**0.1186**	**9.8688**	**0.0957**	**9.9645**	**2.6381**	**0.0891**	**2.7271**		**12,075.9763**	**12,075.9763**	**0.4663**		**12,087.6341**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,286.9013	8,286.9013	0.2282		8,292.6058
Total	**4.0156**	**15.5266**	**30.9685**	**0.1186**	**9.8688**	**0.0957**	**9.9645**	**2.6381**	**0.0891**	**2.7271**		**12,075.9763**	**12,075.9763**	**0.4663**		**12,087.6341**

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		7,983.7318	7,983.7318	0.2055		7,988.8683
Total	**3.6978**	**12.1065**	**28.3496**	**0.1144**	**9.8688**	**0.0803**	**9.9491**	**2.6381**	**0.0743**	**2.7124**		**11,655.1325**	**11,655.1325**	**0.4151**		**11,665.5099**

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		7,983.7318	7,983.7318	0.2055		7,988.8683
Total	**3.6978**	**12.1065**	**28.3496**	**0.1144**	**9.8688**	**0.0803**	**9.9491**	**2.6381**	**0.0743**	**2.7124**		**11,655.1325**	**11,655.1325**	**0.4151**		**11,665.5099**

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.0633**	**0.0400**	**0.4677**	**1.5000e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**149.5081**	**149.5081**	**3.8500e-003**		**149.6043**

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.0633**	**0.0400**	**0.4677**	**1.5000e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**149.5081**	**149.5081**	**3.8500e-003**		**149.6043**

3.6 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
Total	**0.0601**	**0.0364**	**0.4354**	**1.4500e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**144.8706**	**144.8706**	**3.5300e-003**		**144.9587**

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
Total	**0.0601**	**0.0364**	**0.4354**	**1.4500e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**144.8706**	**144.8706**	**3.5300e-003**		**144.9587**

3.7 Architectural Coating - 2024

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,545.2860	1,545.2860	0.0376		1,546.2262
Total	**0.6406**	**0.3886**	**4.6439**	**0.0155**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,545.2860**	**1,545.2860**	**0.0376**		**1,546.2262**

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,545.2860	1,545.2860	0.0376		1,546.2262
Total	**0.6406**	**0.3886**	**4.6439**	**0.0155**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,545.2860**	**1,545.2860**	**0.0376**		**1,546.2262**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

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					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

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					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1704	1.8234	1.1577	2.3800e-003	0.4141	0.0817	0.4958	0.1788	0.0754	0.2542	0.0000	210.7654	210.7654	0.0600	0.0000	212.2661
2022	0.5865	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6554	1,418.6554	0.1215	0.0000	1,421.6925
2023	0.5190	3.2850	4.7678	0.0147	0.8497	0.0971	0.9468	0.2283	0.0912	0.3195	0.0000	1,342.4412	1,342.4412	0.1115	0.0000	1,345.2291
2024	4.1592	0.1313	0.2557	5.0000e-004	0.0221	6.3900e-003	0.0285	5.8700e-003	5.9700e-003	0.0118	0.0000	44.6355	44.6355	7.8300e-003	0.0000	44.8311
Maximum	**4.1592**	**4.0240**	**5.1546**	**0.0155**	**0.9509**	**0.1175**	**1.0683**	**0.2518**	**0.1103**	**0.3621**	**0.0000**	**1,418.6554**	**1,418.6554**	**0.1215**	**0.0000**	**1,421.6925**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1704	1.8234	1.1577	2.3800e-003	0.4141	0.0817	0.4958	0.1788	0.0754	0.2542	0.0000	210.7651	210.7651	0.0600	0.0000	212.2658
2022	0.5865	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6550	1,418.6550	0.1215	0.0000	1,421.6921
2023	0.5190	3.2850	4.7678	0.0147	0.8497	0.0971	0.9468	0.2283	0.0912	0.3195	0.0000	1,342.4409	1,342.4409	0.1115	0.0000	1,345.2287
2024	4.1592	0.1313	0.2557	5.0000e-004	0.0221	6.3900e-003	0.0285	5.8700e-003	5.9700e-003	0.0118	0.0000	44.6354	44.6354	7.8300e-003	0.0000	44.8311
Maximum	**4.1592**	**4.0240**	**5.1546**	**0.0155**	**0.9509**	**0.1175**	**1.0683**	**0.2518**	**0.1103**	**0.3621**	**0.0000**	**1,418.6550**	**1,418.6550**	**0.1215**	**0.0000**	**1,421.6921**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-1-2021**	**11-30-2021**	1.4091	1.4091
2	**12-1-2021**	**2-28-2022**	1.3329	1.3329
3	**3-1-2022**	**5-31-2022**	1.1499	1.1499
4	**6-1-2022**	**8-31-2022**	1.1457	1.1457
5	**9-1-2022**	**11-30-2022**	1.1415	1.1415
6	**12-1-2022**	**2-28-2023**	1.0278	1.0278
7	**3-1-2023**	**5-31-2023**	0.9868	0.9868
8	**6-1-2023**	**8-31-2023**	0.9831	0.9831

9	**9-1-2023**	**11-30-2023**	0.9798	0.9798
10	**12-1-2023**	**2-29-2024**	2.8757	2.8757
11	**3-1-2024**	**5-31-2024**	1.6188	1.6188
		Highest	2.8757	2.8757

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	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

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	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

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

3.0 Construction Detail

Construction Phase

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0012**	**51.0012**	**0.0144**	**0.0000**	**51.3601**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
Total	**2.6500e-003**	**0.0639**	**0.0209**	**2.0000e-004**	**5.6200e-003**	**2.0000e-004**	**5.8200e-003**	**1.5300e-003**	**1.9000e-004**	**1.7200e-003**	**0.0000**	**18.9847**	**18.9847**	**1.2600e-003**	**0.0000**	**19.0161**

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					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0011**	**51.0011**	**0.0144**	**0.0000**	**51.3600**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
Total	**2.6500e-003**	**0.0639**	**0.0209**	**2.0000e-004**	**5.6200e-003**	**2.0000e-004**	**5.8200e-003**	**1.5300e-003**	**1.9000e-004**	**1.7200e-003**	**0.0000**	**18.9847**	**18.9847**	**1.2600e-003**	**0.0000**	**19.0161**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7061**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
Total	**5.8000e-004**	**4.3000e-004**	**4.8700e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3500e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2225**	**1.2225**	**4.0000e-005**	**0.0000**	**1.2234**

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7060**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
Total	**5.8000e-004**	**4.3000e-004**	**4.8700e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3500e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2225**	**1.2225**	**4.0000e-005**	**0.0000**	**1.2234**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5405**	**103.5405**	**0.0335**	**0.0000**	**104.3776**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828
Total	**1.2200e-003**	**9.0000e-004**	**0.0103**	**3.0000e-005**	**2.8300e-003**	**2.0000e-005**	**2.8600e-003**	**7.5000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.5808**	**2.5808**	**8.0000e-005**	**0.0000**	**2.5828**

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					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5403**	**103.5403**	**0.0335**	**0.0000**	**104.3775**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828
Total	**1.2200e-003**	**9.0000e-004**	**0.0103**	**3.0000e-005**	**2.8300e-003**	**2.0000e-005**	**2.8600e-003**	**7.5000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.5808**	**2.5808**	**8.0000e-005**	**0.0000**	**2.5828**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590
Total	**2.1000e-004**	**1.5000e-004**	**1.7400e-003**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**5.3000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4587**	**0.4587**	**1.0000e-005**	**0.0000**	**0.4590**

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					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590
Total	**2.1000e-004**	**1.5000e-004**	**1.7400e-003**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**5.3000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4587**	**0.4587**	**1.0000e-005**	**0.0000**	**0.4590**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1324**	**293.1324**	**0.0702**	**0.0000**	**294.8881**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	**0.3578**	**1.9125**	**2.9812**	**0.0119**	**0.8696**	**9.4100e-003**	**0.8790**	**0.2336**	**8.7800e-003**	**0.2424**	**0.0000**	**1,105.9771**	**1,105.9771**	**0.0451**	**0.0000**	**1,107.1039**

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	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1321**	**293.1321**	**0.0702**	**0.0000**	**294.8877**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	**0.3578**	**1.9125**	**2.9812**	**0.0119**	**0.8696**	**9.4100e-003**	**0.8790**	**0.2336**	**8.7800e-003**	**0.2424**	**0.0000**	**1,105.9771**	**1,105.9771**	**0.0451**	**0.0000**	**1,107.1039**

3.5 Building Construction - 2023

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	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2789**	**286.2789**	**0.0681**	**0.0000**	**287.9814**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.2795	0.1910	2.2635	6.9100e-003	0.7377	5.9100e-003	0.7436	0.1960	5.4500e-003	0.2014	0.0000	624.5363	624.5363	0.0164	0.0000	624.9466
Total	**0.3177**	**1.4420**	**2.6646**	**0.0112**	**0.8490**	**7.3700e-003**	**0.8564**	**0.2281**	**6.8500e-003**	**0.2349**	**0.0000**	**1,042.5294**	**1,042.5294**	**0.0392**	**0.0000**	**1,043.5090**

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	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2785**	**286.2785**	**0.0681**	**0.0000**	**287.9811**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.2795	0.1910	2.2635	6.9100e-003	0.7377	5.9100e-003	0.7436	0.1960	5.4500e-003	0.2014	0.0000	624.5363	624.5363	0.0164	0.0000	624.9466
Total	**0.3177**	**1.4420**	**2.6646**	**0.0112**	**0.8490**	**7.3700e-003**	**0.8564**	**0.2281**	**6.8500e-003**	**0.2349**	**0.0000**	**1,042.5294**	**1,042.5294**	**0.0392**	**0.0000**	**1,043.5090**

3.6 Paving - 2023

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	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160
Total	**2.8000e-004**	**1.9000e-004**	**2.2300e-003**	**1.0000e-005**	**7.3000e-004**	**1.0000e-005**	**7.3000e-004**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**0.0000**	**0.6156**	**0.6156**	**2.0000e-005**	**0.0000**	**0.6160**

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	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160
Total	**2.8000e-004**	**1.9000e-004**	**2.2300e-003**	**1.0000e-005**	**7.3000e-004**	**1.0000e-005**	**7.3000e-004**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**0.0000**	**0.6156**	**0.6156**	**2.0000e-005**	**0.0000**	**0.6160**

3.6 Paving - 2024

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	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100
Total	**4.4000e-004**	**2.9000e-004**	**3.5100e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.0094**	**1.0094**	**3.0000e-005**	**0.0000**	**1.0100**

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	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100
Total	**4.4000e-004**	**2.9000e-004**	**3.5100e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.0094**	**1.0094**	**3.0000e-005**	**0.0000**	**1.0100**

3.7 Architectural Coating - 2024

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	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394
Total	**7.4800e-003**	**4.9300e-003**	**0.0596**	**1.9000e-004**	**0.0209**	**1.6000e-004**	**0.0211**	**5.5500e-003**	**1.5000e-004**	**5.7000e-003**	**0.0000**	**17.1287**	**17.1287**	**4.3000e-004**	**0.0000**	**17.1394**

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	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394
Total	**7.4800e-003**	**4.9300e-003**	**0.0596**	**1.9000e-004**	**0.0209**	**1.6000e-004**	**0.0211**	**5.5500e-003**	**1.5000e-004**	**5.7000e-003**	**0.0000**	**17.1287**	**17.1287**	**4.3000e-004**	**0.0000**	**17.1394**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
NaturalGas Mitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
NaturalGas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

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					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

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	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

7.0 Water Detail

7.1 Mitigation Measures Water

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	585.8052	3.0183	0.0755	683.7567
Unmitigated	585.8052	3.0183	0.0755	683.7567

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	207.8079	12.2811	0.0000	514.8354
Unmitigated	207.8079	12.2811	0.0000	514.8354

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2561	46.4415	31.4494	0.0636	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,163.4166	6,163.4166	1.9475	0.0000	6,212.1039
2022	4.5441	38.8811	40.8776	0.1240	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707
2023	4.1534	25.7658	38.7457	0.1206	7.0088	0.7592	7.7679	1.8799	0.7136	2.5935	0.0000	12,150.4890	12,150.4890	0.9589	0.0000	12,174.4615
2024	237.0219	9.5478	14.9642	0.0239	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,313.1808	2,313.1808	0.7166	0.0000	2,331.0956
Maximum	**237.0219**	**46.4415**	**40.8776**	**0.1240**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,493.4403**	**12,493.4403**	**1.9485**	**0.0000**	**12,518.5707**

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					
2021	4.2561	46.4415	31.4494	0.0636	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,163.4166	6,163.4166	1.9475	0.0000	6,212.1039
2022	4.5441	38.8811	40.8776	0.1240	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707
2023	4.1534	25.7658	38.7457	0.1206	7.0088	0.7592	7.7679	1.8799	0.7136	2.5935	0.0000	12,150.4890	12,150.4890	0.9589	0.0000	12,174.4615
2024	237.0219	9.5478	14.9642	0.0239	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,313.1808	2,313.1808	0.7166	0.0000	2,331.0955
Maximum	**237.0219**	**46.4415**	**40.8776**	**0.1240**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,493.4403**	**12,493.4403**	**1.9485**	**0.0000**	**12,518.5707**

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

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	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003		117.3678
Total	**0.1760**	**4.1265**	**1.3884**	**0.0131**	**0.3810**	**0.0135**	**0.3946**	**0.1034**	**0.0129**	**0.1163**		**1,409.5212**	**1,409.5212**	**0.0912**		**1,411.8015**

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					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003		117.3678
Total	**0.1760**	**4.1265**	**1.3884**	**0.0131**	**0.3810**	**0.0135**	**0.3946**	**0.1034**	**0.0129**	**0.1163**		**1,409.5212**	**1,409.5212**	**0.0912**		**1,411.8015**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		140.7359	140.7359	4.2200e-003		140.8414
Total	**0.0584**	**0.0375**	**0.5139**	**1.4100e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**140.7359**	**140.7359**	**4.2200e-003**		**140.8414**

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	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		140.7359	140.7359	4.2200e-003		140.8414
Total	**0.0584**	**0.0375**	**0.5139**	**1.4100e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**140.7359**	**140.7359**	**4.2200e-003**		**140.8414**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		156.3732	156.3732	4.6900e-003		156.4904
Total	**0.0649**	**0.0417**	**0.5710**	**1.5700e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**156.3732**	**156.3732**	**4.6900e-003**		**156.4904**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		156.3732	156.3732	4.6900e-003		156.4904
Total	**0.0649**	**0.0417**	**0.5710**	**1.5700e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**156.3732**	**156.3732**	**4.6900e-003**		**156.4904**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		150.8754	150.8754	4.2400e-003		150.9813
Total	**0.0607**	**0.0376**	**0.5263**	**1.5100e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**150.8754**	**150.8754**	**4.2400e-003**		**150.9813**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		150.8754	150.8754	4.2400e-003		150.9813
Total	**0.0607**	**0.0376**	**0.5263**	**1.5100e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**150.8754**	**150.8754**	**4.2400e-003**		**150.9813**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		6,042.5585	6,042.5585	0.1697		6,046.8000
Total	**2.8378**	**14.7106**	**24.5142**	**0.0971**	**7.0087**	**0.0741**	**7.0828**	**1.8799**	**0.0691**	**1.9490**		**9,939.1067**	**9,939.1067**	**0.3933**		**9,948.9384**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		6,042.5585	6,042.5585	0.1697		6,046.8000
Total	**2.8378**	**14.7106**	**24.5142**	**0.0971**	**7.0087**	**0.0741**	**7.0828**	**1.8799**	**0.0691**	**1.9490**		**9,939.1067**	**9,939.1067**	**0.3933**		**9,948.9384**

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	2.2780	1.3628	19.4002	0.0584	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,821.4028	5,821.4028	0.1529		5,825.2254
Total	**2.5807**	**11.3809**	**22.5017**	**0.0936**	**7.0088**	**0.0595**	**7.0682**	**1.8799**	**0.0552**	**1.9350**		**9,595.2790**	**9,595.2790**	**0.3511**		**9,604.0554**

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	2.2780	1.3628	19.4002	0.0584	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,821.4028	5,821.4028	0.1529		5,825.2254
Total	**2.5807**	**11.3809**	**22.5017**	**0.0936**	**7.0088**	**0.0595**	**7.0682**	**1.8799**	**0.0552**	**1.9350**		**9,595.2790**	**9,595.2790**	**0.3511**		**9,604.0554**

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		109.0150	109.0150	2.8600e-003		109.0866
Total	**0.0427**	**0.0255**	**0.3633**	**1.0900e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**109.0150**	**109.0150**	**2.8600e-003**		**109.0866**

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		109.0150	109.0150	2.8600e-003		109.0866
Total	**0.0427**	**0.0255**	**0.3633**	**1.0900e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**109.0150**	**109.0150**	**2.8600e-003**		**109.0866**

3.6 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		105.6336	105.6336	2.6300e-003		105.6992
Total	**0.0403**	**0.0233**	**0.3384**	**1.0600e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**105.6336**	**105.6336**	**2.6300e-003**		**105.6992**

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		105.6336	105.6336	2.6300e-003		105.6992
Total	**0.0403**	**0.0233**	**0.3384**	**1.0600e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**105.6336**	**105.6336**	**2.6300e-003**		**105.6992**

3.7 Architectural Coating - 2024

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,126.7583	1,126.7583	0.0280		1,127.4583
Total	**0.4296**	**0.2481**	**3.6098**	**0.0113**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,126.7583**	**1,126.7583**	**0.0280**		**1,127.4583**

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,126.7583	1,126.7583	0.0280		1,127.4583
Total	**0.4296**	**0.2481**	**3.6098**	**0.0113**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,126.7583**	**1,126.7583**	**0.0280**		**1,127.4583**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

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					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

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					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2621	46.4460	31.4068	0.0635	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,154.3377	6,154.3377	1.9472	0.0000	6,203.0186
2022	4.7966	38.8851	39.6338	0.1195	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,035.3440	12,035.3440	1.9482	0.0000	12,060.6013
2023	4.3939	25.8648	37.5031	0.1162	7.0088	0.7598	7.7685	1.8799	0.7142	2.5940	0.0000	11,710.4080	11,710.4080	0.9617	0.0000	11,734.4497
2024	237.0656	9.5503	14.9372	0.0238	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,307.0517	2,307.0517	0.7164	0.0000	2,324.9627
Maximum	**237.0656**	**46.4460**	**39.6338**	**0.1195**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,035.3440**	**12,035.3440**	**1.9482**	**0.0000**	**12,060.6013**

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					
2021	4.2621	46.4460	31.4068	0.0635	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,154.3377	6,154.3377	1.9472	0.0000	6,203.0186
2022	4.7966	38.8851	39.6338	0.1195	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,035.3440	12,035.3440	1.9482	0.0000	12,060.6013
2023	4.3939	25.8648	37.5031	0.1162	7.0088	0.7598	7.7685	1.8799	0.7142	2.5940	0.0000	11,710.4080	11,710.4080	0.9617	0.0000	11,734.4497
2024	237.0656	9.5503	14.9372	0.0238	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,307.0517	2,307.0517	0.7164	0.0000	2,324.9627
Maximum	**237.0656**	**46.4460**	**39.6338**	**0.1195**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,035.3440**	**12,035.3440**	**1.9482**	**0.0000**	**12,060.6013**

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

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	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
Total	**0.1835**	**4.1800**	**1.4144**	**0.0128**	**0.3810**	**0.0137**	**0.3948**	**0.1034**	**0.0131**	**0.1165**		**1,380.3262**	**1,380.3262**	**0.0941**		**1,382.6791**

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					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
Total	**0.1835**	**4.1800**	**1.4144**	**0.0128**	**0.3810**	**0.0137**	**0.3948**	**0.1034**	**0.0131**	**0.1165**		**1,380.3262**	**1,380.3262**	**0.0941**		**1,382.6791**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		132.5649	132.5649	3.9900e-003		132.6646
Total	**0.0638**	**0.0415**	**0.4755**	**1.3300e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**132.5649**	**132.5649**	**3.9900e-003**		**132.6646**

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	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		132.5649	132.5649	3.9900e-003		132.6646
Total	**0.0638**	**0.0415**	**0.4755**	**1.3300e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**132.5649**	**132.5649**	**3.9900e-003**		**132.6646**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		147.2943	147.2943	4.4300e-003		147.4051
Total	**0.0709**	**0.0462**	**0.5284**	**1.4800e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**147.2943**	**147.2943**	**4.4300e-003**		**147.4051**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		147.2943	147.2943	4.4300e-003		147.4051
Total	**0.0709**	**0.0462**	**0.5284**	**1.4800e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**147.2943**	**147.2943**	**4.4300e-003**		**147.4051**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		142.1207	142.1207	4.0000e-003		142.2207
Total	**0.0665**	**0.0416**	**0.4861**	**1.4300e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**142.1207**	**142.1207**	**4.0000e-003**		**142.2207**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		142.1207	142.1207	4.0000e-003		142.2207
Total	**0.0665**	**0.0416**	**0.4861**	**1.4300e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**142.1207**	**142.1207**	**4.0000e-003**		**142.2207**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	2.6620	1.6677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		5,691.9354	5,691.9354	0.1602		5,695.9408
Total	**3.0904**	**14.8350**	**23.2704**	**0.0926**	**7.0087**	**0.0749**	**7.0836**	**1.8799**	**0.0699**	**1.9498**		**9,481.0104**	**9,481.0104**	**0.3984**		**9,490.9691**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	2.6620	1.6677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		5,691.9354	5,691.9354	0.1602		5,695.9408
Total	**3.0904**	**14.8350**	**23.2704**	**0.0926**	**7.0087**	**0.0749**	**7.0836**	**1.8799**	**0.0699**	**1.9498**		**9,481.0104**	**9,481.0104**	**0.3984**		**9,490.9691**

3.5 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,483.7974	5,483.7974	0.1442		5,487.4020
Total	**2.8211**	**11.4799**	**21.2591**	**0.0893**	**7.0088**	**0.0601**	**7.0688**	**1.8799**	**0.0557**	**1.9356**		**9,155.1981**	**9,155.1981**	**0.3538**		**9,164.0437**

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,483.7974	5,483.7974	0.1442		5,487.4020
Total	**2.8211**	**11.4799**	**21.2591**	**0.0893**	**7.0088**	**0.0601**	**7.0688**	**1.8799**	**0.0557**	**1.9356**		**9,155.1981**	**9,155.1981**	**0.3538**		**9,164.0437**

3.6 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		102.6928	102.6928	2.7000e-003		102.7603
Total	**0.0469**	**0.0282**	**0.3349**	**1.0300e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**102.6928**	**102.6928**	**2.7000e-003**		**102.7603**

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		102.6928	102.6928	2.7000e-003		102.7603
Total	**0.0469**	**0.0282**	**0.3349**	**1.0300e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**102.6928**	**102.6928**	**2.7000e-003**		**102.7603**

3.6 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		99.5045	99.5045	2.4700e-003		99.5663
Total	**0.0444**	**0.0257**	**0.3114**	**1.0000e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**99.5045**	**99.5045**	**2.4700e-003**		**99.5663**

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		99.5045	99.5045	2.4700e-003		99.5663
Total	**0.0444**	**0.0257**	**0.3114**	**1.0000e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**99.5045**	**99.5045**	**2.4700e-003**		**99.5663**

3.7 Architectural Coating - 2024

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,061.3818	1,061.3818	0.0264		1,062.0410
Total	**0.4734**	**0.2743**	**3.3220**	**0.0107**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,061.3818**	**1,061.3818**	**0.0264**		**1,062.0410**

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	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,061.3818	1,061.3818	0.0264		1,062.0410
Total	**0.4734**	**0.2743**	**3.3220**	**0.0107**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,061.3818**	**1,061.3818**	**0.0264**		**1,062.0410**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

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					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

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					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

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	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment C

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,623
Amortized (MT CO2e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,024
Amortized (MT CO2e/year)	100.80
% Decrease in Construction-related GHG Emissions	***17%***

EXHIBIT B

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

SOIL WATER AIR PROTECTION ENTERPRISE
2656 29th Street, Suite 201
Santa Monica, California 90405
Attn: Paul Rosenfeld, Ph.D.
Mobil: (310) 795-2335
Office: (310) 452-5555
Fax: (310) 452-5550
Email: prosenfeld@swape.com

Paul Rosenfeld, Ph.D.

Chemical Fate and Transport & Air Dispersion Modeling

Principal Environmental Chemist

Risk Assessment & Remediation Specialist

Education

Ph.D. Soil Chemistry, University of Washington, 1999. Dissertation on volatile organic compound filtration.

M.S. Environmental Science, U.C. Berkeley, 1995. Thesis on organic waste economics.

B.A. Environmental Studies, U.C. Santa Barbara, 1991. Thesis on wastewater treatment.

Professional Experience

Dr. Rosenfeld has over 25 years' experience conducting environmental investigations and risk assessments for evaluating impacts to human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risk, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from unconventional oil drilling operations, oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, and many other industrial and agricultural sources. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particulate matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants. Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at dozens of sites and has testified as an expert witness on more than ten cases involving exposure to air contaminants from industrial sources.

Professional History:

Soil Water Air Protection Enterprise (SWAPE); 2003 to present; Principal and Founding Partner
UCLA School of Public Health; 2007 to 2011; Lecturer (Assistant Researcher)
UCLA School of Public Health; 2003 to 2006; Adjunct Professor
UCLA Environmental Science and Engineering Program; 2002-2004; Doctoral Intern Coordinator
UCLA Institute of the Environment, 2001-2002; Research Associate
Komex H_2O Science, 2001 to 2003; Senior Remediation Scientist
National Groundwater Association, 2002-2004; Lecturer
San Diego State University, 1999-2001; Adjunct Professor
Anteon Corp., San Diego, 2000-2001; Remediation Project Manager
Ogden (now Amec), San Diego, 2000-2000; Remediation Project Manager
Bechtel, San Diego, California, 1999 – 2000; Risk Assessor
King County, Seattle, 1996 – 1999; Scientist
James River Corp., Washington, 1995-96; Scientist
Big Creek Lumber, Davenport, California, 1995; Scientist
Plumas Corp., California and USFS, Tahoe 1993-1995; Scientist
Peace Corps and World Wildlife Fund, St. Kitts, West Indies, 1991-1993; Scientist

Publications:

Remy, L.L., Clay T., Byers, V., **Rosenfeld P. E.** (2019) Hospital, Health, and Community Burden After Oil Refinery Fires, Richmond, California 2007 and 2012. *Environmental Health.* 18:48

Simons, R.A., Seo, Y. **Rosenfeld, P**., (2015) Modeling the Effect of Refinery Emission On Residential Property Value. Journal of Real Estate Research. 27(3):321-342

Chen, J. A, Zapata A. R., Sutherland A. J., Molmen, D.R., Chow, B. S., Wu, L. E., **Rosenfeld, P. E.,** Hesse, R. C., (2012) Sulfur Dioxide and Volatile Organic Compound Exposure To A Community In Texas City Texas Evaluated Using Aermod and Empirical Data. *American Journal of Environmental Science*, 8(6), 622-632.

Rosenfeld, P.E. & Feng, L. (2011). *The Risks of Hazardous Waste.* Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2011). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Agrochemical Industry*, Amsterdam: Elsevier Publishing.

Gonzalez, J., Feng, L., Sutherland, A., Waller, C., Sok, H., Hesse, R., **Rosenfeld, P.** (2010). PCBs and Dioxins/Furans in Attic Dust Collected Near Former PCB Production and Secondary Copper Facilities in Sauget, IL. *Procedia Environmental Sciences*. 113–125.

Feng, L., Wu, C., Tam, L., Sutherland, A.J., Clark, J.J., **Rosenfeld, P.E.** (2010). Dioxin and Furan Blood Lipid and Attic Dust Concentrations in Populations Living Near Four Wood Treatment Facilities in the United States. *Journal of Environmental Health*. 73(6), 34-46.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2010). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Wood and Paper Industries.* Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2009). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Petroleum Industry*. Amsterdam: Elsevier Publishing.

Wu, C., Tam, L., Clark, J., **Rosenfeld, P**. (2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. *WIT Transactions on Ecology and the Environment, Air Pollution,* 123 (17), 319-327.

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008). A Statistical Analysis Of Attic Dust And Blood Lipid Concentrations Of Tetrachloro-p-Dibenzodioxin (TCDD) Toxicity Equivalency Quotients (TEQ) In Two Populations Near Wood Treatment Facilities. *Organohalogen Compounds*, 70, 002252-002255.

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008). Methods For Collect Samples For Assessing Dioxins And Other Environmental Contaminants In Attic Dust: A Review. *Organohalogen Compounds*, 70, 000527-000530.

Hensley, A.R. A. Scott, J. J. J. Clark, **Rosenfeld, P.E.** (2007). Attic Dust and Human Blood Samples Collected near a Former Wood Treatment Facility. *Environmental Research*. 105, 194-197.

Rosenfeld, P.E., J. J. J. Clark, A. R. Hensley, M. Suffet. (2007). The Use of an Odor Wheel Classification for Evaluation of Human Health Risk Criteria for Compost Facilities. *Water Science & Technology* 55(5), 345-357.

Rosenfeld, P. E., M. Suffet. (2007). The Anatomy Of Odour Wheels For Odours Of Drinking Water, Wastewater, Compost And The Urban Environment. *Water Science & Technology* 55(5), 335-344.

Sullivan, P. J. Clark, J.J.J., Agardy, F. J., **Rosenfeld, P.E.** (2007). *Toxic Legacy, Synthetic Toxins in the Food, Water, and Air in American Cities.* Boston Massachusetts: Elsevier Publishing

Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash. *Water Science and Technology*. 49(9),171-178.

Rosenfeld P. E., J.J. Clark, I.H. (Mel) Suffet (2004). The Value of An Odor-Quality-Wheel Classification Scheme For The Urban Environment. *Water Environment Federation's Technical Exhibition and Conference (WEFTEC) 2004.* New Orleans, October 2-6, 2004.

Rosenfeld, P.E., and Suffet, I.H. (2004). Understanding Odorants Associated With Compost, Biomass Facilities, and the Land Application of Biosolids. *Water Science and Technology*. 49(9), 193-199.

Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash, *Water Science and Technology*, 49(9), 171-178.

Rosenfeld, P. E., Grey, M. A., Sellew, P. (2004). Measurement of Biosolids Odor and Odorant Emissions from Windrows, Static Pile and Biofilter. *Water Environment Research*. 76(4), 310-315.

Rosenfeld, P.E., Grey, M and Suffet, M. (2002). Compost Demonstration Project, Sacramento California Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Integrated Waste Management Board Public Affairs Office*, Publications Clearinghouse (MS–6), Sacramento, CA Publication #442-02-008.

Rosenfeld, P.E., and C.L. Henry. (2001). Characterization of odor emissions from three different biosolids. *Water Soil and Air Pollution*. 127(1-4), 173-191.

Rosenfeld, P.E., and Henry C. L., (2000). Wood ash control of odor emissions from biosolids application. *Journal of Environmental Quality.* 29, 1662-1668.

Rosenfeld, P.E., C.L. Henry and D. Bennett. (2001). Wastewater dewatering polymer affect on biosolids odor emissions and microbial activity. *Water Environment Research*. 73(4), 363-367.

Rosenfeld, P.E., and C.L. Henry. (2001). Activated Carbon and Wood Ash Sorption of Wastewater, Compost, and Biosolids Odorants. *Water Environment Research*, 73, 388-393.

Rosenfeld, P.E., and Henry C. L., (2001). High carbon wood ash effect on biosolids microbial activity and odor. *Water Environment Research*. 131(1-4), 247-262.

Chollack, T. and **P. Rosenfeld. (**1998). Compost Amendment Handbook For Landscaping. Prepared for and distributed by the City of Redmond, Washington State.

Rosenfeld, P. E. (1992). The Mount Liamuiga Crater Trail. *Heritage Magazine of St. Kitts*, 3(2).

Rosenfeld, P. E. (1993). High School Biogas Project to Prevent Deforestation On St. Kitts. *Biomass Users Network*, 7(1).

Rosenfeld, P. E. (1998). Characterization, Quantification, and Control of Odor Emissions From Biosolids Application To Forest Soil. Doctoral Thesis. University of Washington College of Forest Resources.

Rosenfeld, P. E. (1994). Potential Utilization of Small Diameter Trees on Sierra County Public Land. Masters thesis reprinted by the Sierra County Economic Council. Sierra County, California.

Rosenfeld, P. E. (1991). How to Build a Small Rural Anaerobic Digester & Uses Of Biogas In The First And Third World. Bachelors Thesis. University of California.

Presentations:

Rosenfeld, P.E., Sutherland, A; Hesse, R.; Zapata, A. (October 3-6, 2013). Air dispersion modeling of volatile organic emissions from multiple natural gas wells in Decatur, TX. *44th Western Regional Meeting, American Chemical Society.* Lecture conducted from Santa Clara, CA.

Sok, H.L.; Waller, C.C.; Feng, L.; Gonzalez, J.; Sutherland, A.J.; Wisdom-Stack, T.; Sahai, R.K.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Atrazine: A Persistent Pesticide in Urban Drinking Water. *Urban Environmental Pollution*. Lecture conducted from Boston, MA.

Feng, L.; Gonzalez, J.; Sok, H.L.; Sutherland, A.J.; Waller, C.C.; Wisdom-Stack, T.; Sahai, R.K.; La, M.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Bringing Environmental Justice to East St. Louis, Illinois. *Urban Environmental Pollution.* Lecture conducted from Boston, MA.

Rosenfeld, P.E. (April 19-23, 2009). Perfluoroctanoic Acid (PFOA) and Perfluoroactane Sulfonate (PFOS) Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*, Lecture conducted from Tuscon, AZ.

Rosenfeld, P.E. (April 19-23, 2009). Cost to Filter Atrazine Contamination from Drinking Water in the United States" Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*. Lecture conducted from Tuscon, AZ.

Wu, C., Tam, L., Clark, J., **Rosenfeld, P**. (20-22 July, 2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. Brebbia, C.A. and Popov, V., eds., *Air Pollution XVII: Proceedings of the Seventeenth International Conference on Modeling, Monitoring and Management of Air Pollution*. Lecture conducted from Tallinn, Estonia.

Rosenfeld, P. E. (October 15-18, 2007). Moss Point Community Exposure To Contaminants From A Releasing Facility. *The 23rd Annual International Conferences on Soils Sediment and Water.* Platform lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld, P. E. (October 15-18, 2007). The Repeated Trespass of Tritium-Contaminated Water Into A Surrounding Community Form Repeated Waste Spills From A Nuclear Power Plant. *The 23rd Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld, P. E. (October 15-18, 2007). Somerville Community Exposure To Contaminants From Wood Treatment Facility Emissions. The *23rd Annual International Conferences on Soils Sediment and Water*. Lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld P. E. (March 2007). Production, Chemical Properties, Toxicology, & Treatment Case Studies of 1,2,3-Trichloropropane (TCP). *The Association for Environmental Health and Sciences (AEHS) Annual Meeting*. Lecture conducted from San Diego, CA.

Rosenfeld P. E. (March 2007). Blood and Attic Sampling for Dioxin/Furan, PAH, and Metal Exposure in Florala, Alabama. *The AEHS Annual Meeting.* Lecture conducted from San Diego, CA.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (August 21 – 25, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006*. Lecture conducted from Radisson SAS Scandinavia Hotel in Oslo Norway.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (November 4-8, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *APHA 134 Annual Meeting & Exposition.* Lecture conducted from Boston Massachusetts.

Paul Rosenfeld Ph.D. (October 24-25, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. Mealey's C8/PFOA. *Science, Risk & Litigation Conference.* Lecture conducted from The Rittenhouse Hotel, Philadelphia, PA.

Paul Rosenfeld Ph.D. (September 19, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, *Toxicology and Remediation PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel, Irvine California.

Paul Rosenfeld Ph.D. (September 19, 2005). Fate, Transport, Toxicity, And Persistence of 1,2,3-TCP. *PEMA Emerging Contaminant Conference.* Lecture conducted from Hilton Hotel in Irvine, California.

Paul Rosenfeld Ph.D. (September 26-27, 2005). Fate, Transport and Persistence of PDBEs. *Mealey's Groundwater Conference.* Lecture conducted from Ritz Carlton Hotel, Marina Del Ray, California.

Paul Rosenfeld Ph.D. (June 7-8, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. *International Society of Environmental Forensics: Focus On Emerging Contaminants*. Lecture conducted from Sheraton Oceanfront Hotel, Virginia Beach, Virginia.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Fate Transport, Persistence and Toxicology of PFOA and Related Perfluorochemicals. *2005 National Groundwater Association Ground Water And Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, Toxicology and Remediation. *2005 National Groundwater Association Ground Water and Environmental Law Conference.* Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. and Rob Hesse R.G. (May 5-6, 2004). Tert-butyl Alcohol Liability and Toxicology, A National Problem and Unquantified Liability. *National Groundwater Association. Environmental Law Conference*. Lecture conducted from Congress Plaza Hotel, Chicago Illinois.

Paul Rosenfeld, Ph.D. (March 2004). Perchlorate Toxicology. *Meeting of the American Groundwater Trust*. Lecture conducted from Phoenix Arizona.

Hagemann, M.F., **Paul Rosenfeld, Ph.D.** and Rob Hesse (2004). Perchlorate Contamination of the Colorado River. *Meeting of tribal representatives*. Lecture conducted from Parker, AZ.

Paul Rosenfeld, Ph.D. (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. *Drycleaner Symposium. California Ground Water Association*. Lecture conducted from Radison Hotel, Sacramento, California.

Rosenfeld, P. E., Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. *Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference* Orlando, FL.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants*.. Lecture conducted from Hyatt Regency Phoenix Arizona.

Paul Rosenfeld, Ph.D. (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.

Paul Rosenfeld, Ph.D. (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, *Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Using High Carbon Wood Ash to Control Compost Odor. *Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..

Rosenfeld, P.E. and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conferenc*e. Lecture conducted from Indianapolis, Maryland.

Rosenfeld. P.E. (September 16, 2000). Two stage biofilter for biosolids composting odor control. *Water Environment Federation.* Lecture conducted from Anaheim California.

Rosenfeld. P.E. (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest.* Lecture conducted from Ocean Shores, California.

Rosenfeld, P.E. (2000). Bioremediation Using Organic Soil Amendments. *California Resource Recovery Association*. Lecture conducted from Sacramento California.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. *Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings*. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell.* Lecture conducted from Seattle Washington.

Rosenfeld, P.E., C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest.* Lecture conducted from Lake Chelan, Washington.

Rosenfeld, P.E, C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., C.L. Henry, R. B. Harrison, and R. Dills. (1997). Comparison of Odor Emissions From Three Different Biosolids Applied to Forest Soil. *Soil Science Society of America*. Lecture conducted from Anaheim California.

Teaching Experience:

UCLA Department of Environmental Health (Summer 2003 through 20010) Taught Environmental Health Science 100 to students, including undergrad, medical doctors, public health professionals and nurses. Course focused on the health effects of environmental contaminants.

National Ground Water Association, Successful Remediation Technologies. Custom Course in Sante Fe, New Mexico. May 21, 2002. Focused on fate and transport of fuel contaminants associated with underground storage tanks.

National Ground Water Association; Successful Remediation Technologies Course in Chicago Illinois. April 1, 2002. Focused on fate and transport of contaminants associated with Superfund and RCRA sites.

California Integrated Waste Management Board, April and May, 2001. Alternative Landfill Caps Seminar in San Diego, Ventura, and San Francisco. Focused on both prescriptive and innovative landfill cover design.

UCLA Department of Environmental Engineering, February 5, 2002. Seminar on Successful Remediation Technologies focusing on Groundwater Remediation.

University Of Washington, Soil Science Program, Teaching Assistant for several courses including: Soil Chemistry, Organic Soil Amendments, and Soil Stability.

U.C. Berkeley, Environmental Science Program Teaching Assistant for Environmental Science 10.

Academic Grants Awarded:

California Integrated Waste Management Board. $41,000 grant awarded to UCLA Institute of the Environment. Goal: To investigate effect of high carbon wood ash on volatile organic emissions from compost. 2001.

Synagro Technologies, Corona California: $10,000 grant awarded to San Diego State University.
Goal: investigate effect of biosolids for restoration and remediation of degraded coastal sage soils. 2000.

King County, Department of Research and Technology, Washington State. $100,000 grant awarded to University of Washington: Goal: To investigate odor emissions from biosolids application and the effect of polymers and ash on VOC emissions. 1998.

Northwest Biosolids Management Association, Washington State. $20,000 grant awarded to investigate effect of polymers and ash on VOC emissions from biosolids. 1997.

James River Corporation, Oregon: $10,000 grant was awarded to investigate the success of genetically engineered Poplar trees with resistance to round-up. 1996.

United State Forest Service, Tahoe National Forest: $15,000 grant was awarded to investigating fire ecology of the Tahoe National Forest. 1995.

Kellogg Foundation, Washington D.C. $500 grant was awarded to construct a large anaerobic digester on St. Kitts in West Indies. 1993

Deposition and/or Trial Testimony:

In the United States District Court For The District of New Jersey
Duarte et al, *Plaintiffs,* vs. United States Metals Refining Company et. al. *Defendant.*
Case No.: 2:17-cv-01624-ES-SCM
Rosenfeld Deposition. 6-7-2019

In the United States District Court of Southern District of Texas Galveston Division
M/T Carla Maersk, *Plaintiffs,* vs. Conti 168., Schiffahrts-GMBH & Co. Bulker KG MS "Conti Perdido" *Defendant.*
Case No.: 3:15-CV-00106 consolidated with 3:15-CV-00237
Rosenfeld Deposition. 5-9-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
Carole-Taddeo-Bates et al., vs. Ifran Khan et al., Defendants
Case No.: No. BC615636
Rosenfeld Deposition, 1-26-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
The San Gabriel Valley Council of Governments et al. vs El Adobe Apts. Inc. et al., Defendants
Case No.: No. BC646857
Rosenfeld Deposition, 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado
Bells et al. Plaintiff vs. The 3M Company et al., Defendants
Case: No 1:16-cv-02531-RBJ
Rosenfeld Deposition, 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112th Judicial District
Phillip Bales et al., Plaintiff vs. Dow Agrosciences, LLC, et al., Defendants
Cause No 1923
Rosenfeld Deposition, 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa
Simons et al., Plaintiffs vs. Chevron Corporation, et al., Defendants
Cause No C12-01481
Rosenfeld Deposition, 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois
Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants
Case No.: No. 0i9-L-2295
Rosenfeld Deposition, 8-23-2017

In The Superior Court of the State of California, For The County of Los Angeles
Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC
Case No.: LC102019 (c/w BC582154)
Rosenfeld Deposition, 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division
Brenda J. Cooper, et al., *Plaintiffs,* vs. Meritor Inc., et al., *Defendants*
Case Number: 4:16-cv-52-DMB-JVM
Rosenfeld Deposition: July 2017

In The Superior Court of the State of Washington, County of Snohomish
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants
Case No.: No. 13-2-03987-5
Rosenfeld Deposition, February 2017
Trial, March 2017

In The Superior Court of the State of California, County of Alameda
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants
Case No.: RG14711115
Rosenfeld Deposition, September 2015

In The Iowa District Court In And For Poweshiek County
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants
Case No.: LALA002187
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Jerry Dovico, et al., Plaintiffs vs. Valley View Sine LLC, et al., Defendants
Law No,: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Doug Pauls, et al.,, et al., Plaintiffs vs. Richard Warren, et al., Defendants
Law No,: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Circuit Court of Ohio County, West Virginia
Robert Andrews, et al. v. Antero, et al.
Civil Action N0. 14-C-30000
Rosenfeld Deposition, June 2015

In The Third Judicial District County of Dona Ana, New Mexico
Betty Gonzalez, et al. Plaintiffs vs. Del Oro Dairy, Del Oro Real Estate LLC, Jerry Settles and Deward DeRuyter, Defendants
Rosenfeld Deposition: July 2015

In The Iowa District Court For Muscatine County
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant
Case No 4980
Rosenfeld Deposition: May 2015

In the Circuit Court of the 17th Judicial Circuit, in and For Broward County, Florida
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.
Case Number CACE07030358 (26)
Rosenfeld Deposition: December 2014

In the United States District Court Western District of Oklahoma
Tommy McCarty, et al., Plaintiffs, v. Oklahoma City Landfill, LLC d/b/a Southeast Oklahoma City Landfill, et al. Defendants.
Case No. 5:12-cv-01152-C
Rosenfeld Deposition: July 2014

In the County Court of Dallas County Texas
Lisa Parr et al, *Plaintiff*, vs. Aruba et al, *Defendant.*
Case Number cc-11-01650-E
Rosenfeld Deposition: March and September 2013
Rosenfeld Trial: April 2014

In the Court of Common Pleas of Tuscarawas County Ohio
John Michael Abicht, et al., *Plaintiffs,* vs. Republic Services, Inc., et al., *Defendants*
Case Number: 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)
Rosenfeld Deposition: October 2012

In the United States District Court of Southern District of Texas Galveston Division
Kyle Cannon, Eugene Donovan, Genaro Ramirez, Carol Sassler, and Harvey Walton, each Individually and on behalf of those similarly situated, *Plaintiffs,* vs. BP Products North America, Inc., *Defendant.*
Case 3:10-cv-00622
Rosenfeld Deposition: February 2012
Rosenfeld Trial: April 2013

In the Circuit Court of Baltimore County Maryland
Philip E. Cvach, II et al., *Plaintiffs* vs. Two Farms, Inc. d/b/a Royal Farms, Defendants
Case Number: 03-C-12-012487 OT
Rosenfeld Deposition: September 2013

EXHIBIT C

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

1640 5th St.., Suite 204 Santa
Santa Monica, California 90401
Tel: (949) 887-9013
Email: mhagemann@swape.com

Matthew F. Hagemann, P.G., C.Hg., QSD, QSP

Geologic and Hydrogeologic Characterization
Industrial Stormwater Compliance
Investigation and Remediation Strategies
Litigation Support and Testifying Expert
CEQA Review

Education:

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.
B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

Professional Certifications:

California Professional Geologist
California Certified Hydrogeologist
Qualified SWPPP Developer and Practitioner

Professional Experience:

Matt has 25 years of experience in environmental policy, assessment and remediation. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) while also working with permit holders to improve hydrogeologic characterization and water quality monitoring.

Matt has worked closely with U.S. EPA legal counsel and the technical staff of several states in the application and enforcement of RCRA, Safe Drinking Water Act and Clean Water Act regulations. Matt has trained the technical staff in the States of California, Hawaii, Nevada, Arizona and the Territory of Guam in the conduct of investigations, groundwater fundamentals, and sampling techniques.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2014;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

Senior Regulatory and Litigation Support Analyst:

With SWAPE, Matt's responsibilities have included:

- Lead analyst and testifying expert in the review of over 100 environmental impact reports since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, Valley Fever, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at industrial facilities.
- Manager of a project to provide technical assistance to a community adjacent to a former Naval shipyard under a grant from the U.S. EPA.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.
- Expert witness on two cases involving MTBE litigation.
- Expert witness and litigation support on the impact of air toxins and hazards at a school.
- Expert witness in litigation at a former plywood plant.

With Komex H2O Science Inc., Matt's duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.

- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

Executive Director:

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

Hydrogeology:

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

Policy:

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9. Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, Oxygenates in Water: Critical Information and Research Needs.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

Geology:

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

Teaching:

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt taught physical geology (lecture and lab and introductory geology at Golden West College in Huntington Beach, California from 2010 to 2014.

Invited Testimony, Reports, Papers and Presentations:

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

Hagemann, M.F., 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Coloradao.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

Hagemann, M.F., 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal repesentatives, Parker, AZ.

Hagemann, M.F., 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

Hagemann, M.F., 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

Hagemann, M.F., 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

Hagemann, M.F., 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

Hagemann, M.F., 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

Hagemann, M.F., 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

Hagemann, M.F., 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

Hagemann, M.F., 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

Hagemann, M.F., and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F**. 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

Hagemann, M.F., 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

Hagemann, M.F., 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

Hagemann, M.F., and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

Hagemann, M.F., Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

Hagemann, M. F., Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

Hagemann, M.F., 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

Hagemann, M.F. and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

Hagemann, M.F., 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.

Hagemann, M.F., 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

Other Experience:

Selected as subject matter expert for the California Professional Geologist licensing examination, 2009-2011.

04/27/2022

VIA EMAIL ONLY

Alfonso Hernandez, Senior Planner
City of Downey
Planning Division
1st Floor Downey City Hall
11111 Brookshire Avenue
Downey, CA 90241
Email: ashernandez@downeyca.org

RE: NOP Comments for Stewart & Gray Road Warehouse Project

Dear Mr. Hernandez,

On behalf of Coalition for Responsible Equitable Economic Development ("CREED LA") thank you for the opportunity to provide comments on the Notice of Preparation ("NOP") for environmental review of the Stewart & Gray Road Warehouse Project (the "Project").

The proposed Project would include the demolition of existing five buildings and the construction of an approximately 510,110 square foot industrial concrete tilt-up building for warehouse/logistics uses, and a 25,000 square foot ancillary truck workshop facility.

The Initial Study ("IS") identifies the Project's potentially significant impacts under CEQA to include Aesthetics, Air Quality, Cultural Resources, Energy, Geology and Soils, Greenhouse Gas Emissions, Hazards and Hazardous Materials, Hydrology and Water Quality, Land Use and Planning, Noise, Transportation, Tribal Cultural Resources, and Mandatory Findings of Significance. CREED LA respectfully requests, under CEQA complete analysis of these impacts, imposition of all feasible mitigation and study of a reasonable range of alternatives to the Project.

I. Background on CEQA EIRs

CEQA advances three related purposes. First, CEQA is designed to inform decision makers and the public about the potential, significant environmental effects of a project. 14 Cal. Code Regs. ("Guidelines") § 15002(a)(1). "Its purpose is to inform the public and its responsible officials of the environmental consequences of their decisions before they are made. Thus, the EIR 'protects not only the environment but also informed self-government.'" *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553, 564.

Second, CEQA requires public agencies to avoid or reduce environmental damage when "feasible" by requiring implementation of "environmentally superior" alternatives and all feasible mitigation measures. Guidelines § 15002(a)(2) and (3); *Citizens of Goleta Valley*, 52 Cal.3d at 564. If the project will have a significant effect on the environment, the agency may approve the project only if it finds that it has "eliminated or substantially lessened all significant effects on the environment where feasible" and that any unavoidable significant effects on the environment are "acceptable due to overriding concerns." Pub. Res. Code § 21081; Guidelines § 15092(b)(2)(A) and (B).

Third, CEQA compels disclosing "to the public the rationale for governmental approval of a project that may significantly impact the environment." *California Building Industry Assn. v. Bay Area Air Quality Management Dist*. (2015) 62 Cal.4th 369, 382.

Although the courts review an EIR using an "abuse of discretion" standard, "the reviewing court is not to 'uncritically rely on every study or analysis presented by a project proponent in support of its position.' A 'clearly inadequate or unsupported study is entitled to no judicial deference.'" *Berkeley Keep Jets Over the Bay v. Bd. of Port Comm'rs*. (2001) 91 Cal.App.4th 1344, 1355 (quoting *Laurel Heights Improvement Ass'n v. Regents of Univ. of Cal*., 47 Cal.3d 376, 409 n. 12 (1988)). Substantial evidence in the record must support any foundational assumptions used for the impact analyses in the EIR. *Citizens of Goleta Valley*, 52 Cal.3d at 568 (EIR must contain facts and analysis, not just bare conclusions); *Laurel Heights*, 47 Cal.3d at 392-93 (agency's conclusions must be supported with substantial evidence).

II. Comments on Initial Study

Hazards and Hazardous Materials

The IS contends that the Project would have a less than significant impact to the public or environment through the routine transport, use, or disposal of hazardous materials. However, the conclusion is not apparent from the discussion, facts, and circumstances.

The conclusion relies on compliance with applicable regulations and the fact that "the number of materials that would be handled at any one time for the proposed warehouse operations would be relatively small" (IS p. 20). However, the proposed over 500,000 square foot last-mile fulfillment warehouse has capacity to handle more than 'a relatively small number of materials.' Furthermore, the IS concedes that the tenant and thereby the nature and amount of goods to be transported, stored, processed, and shipped is unknown. To meet CEQA's informational purposes, the City should further evaluate the issue in the DEIR.

III. General Comments

i) Air Quality & Public Health: CREED LA has a particular interest in air quality and public health. Estimates of the significance of air quality impacts must be consistent with current epidemiological studies regarding the effects of pollution and various kinds of environmental stress on public health. The proposed Project would be exclusively truck-served and operate 24-hours a day, 365 days a year in day and night shifts. In addition, since the facility will be a last-mile fulfillment center, we can reasonably expect high frequency high impact diesel truck traffic due to loading and unloading of products at the warehouse.

Therefore, even if the immediate project area has few nearby residences, the DEIR must include a Health Risk Assessment (HRA). This is particularly important because of the adverse impact of logistics facilities on community health including carbon dioxide emissions caused by storage and material handling processes in warehouses.[1] We must not ignore the unjust consequences of toxic pollution on surrounding communities and workers.

ii) Transportation Analysis: In order to reflect a good faith effort at full disclosure, the transportation analysis must consider all reasonably foreseeable uses for the Project. Since the Project is a "speculative building" with no specific identified tenant, the DEIR analysis should include higher intensity uses. The analysis must also include heavy truck traffic in its VMT analysis.

iii) Cold Storage Industrial Use: Since the Project includes a cold storage, it is likely that trucks and trailers going in and out of the Project site would be equipped with transport refrigeration units (TRU). The TRUs would emit large quantities of diesel exhaust while operating within the Project site. The City should model air pollutant emissions from on-site TRUs in the DEIR and include potential cancer risks to nearby residences and other sensitive receptors from on-site TRUs in the HRA.

iv) Mitigation measures: Mitigation measures must be effective and enforceable. Every effort must be made to incorporate modern technology in the mitigation measures and MMRP. For example, a requirement that all off-road equipment and trucks using the site during construction and operations be zero emission, near-zero emissions or alternative-fueled vehicle would both reduce and/or eliminate air pollution impacts and CO2 emissions.

A requirement to utilize natural refrigerant alternatives would reduce the Project's impact on greenhouse gas emissions (GHG). As more cold storage warehouses are built, the use of refrigerants with potent greenhouse gas emissions is growing, as is their contribution to global climate change.

Mitigation measures can also include requirements to install cool roofs to reduce operational energy demand, solar canopies on the parking lot, provision of EV charging infrastructure including electrification of loading docks, and measures to reduce urban heat island effect impacts.

[1] For example, https://envhealthcenters.usc.edu/wp-content/uploads/2016/11/Storing-Harm.pdf https://earthjustice.org/sites/default/files/files/warehouse_research_report_4.15.2021.pdf

v) Substantial Evidence: We expect that the DEIR analysis will refrain from unsupported assumptions and utilize substantial evidence in its analysis of various environmental considerations.

vi) Full Disclosure: Provide all sources and referenced materials when the DEIR is made available.

III. Conclusion

Thank you for the opportunity to submit NOP comments. Again, CREED LA respectfully requests under CEQA full analysis of the environmental impacts, feasible mitigation, and reasonable alternatives to the Project.

We look forward to reviewing and commenting on the DEIR.

Sincerely,

Jeff Modrzejewski
Executive Director

CREED LA

April 29, 2022

Via Email and U.S. Mail

City of Downey
Attn: Alfonso Hernandez
11111 Brookshire Ave.
Downey, CA 90241
ashernandez@downeyca.org

RE: Public Records Act Request and Request for Mailed Notice of Public Hearings and Actions –Stewart and Gray Warehouse, Stewart & Gray Rd and Woodruff Ave. Downey, CA 90241

Dear Mr. Hernandez,

CREED LA is writing to request a copy of any and all records related to the project, the Stewart and Gray Warehouse, located at Stewart & Gray Road and Woodruff Avenue in Downey. The project will be the construction and operation of an industrial concrete tilt-up building for warehouse and logistics use with 510,000 square feet of space. We are also writing to request copies of and mailed notice of any and all hearings and/or actions related to the Project.

Our request for mailed notice of all hearings includes hearings, study sessions and community meetings related to the Project, certification of the MND (or recirculated DEIR), and approval of any Project entitlements. This request is made pursuant to Public Resources Code Sections 21092.2, 21080.4, 21083.9, 21092, 21108 and 21152 and Government Code Section 65092, which require local agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body. Our request includes notice to any City actions, hearings or other proceedings regarding the Project, Project approvals and any actions taken, or additional documents released pursuant to the California Environmental Quality Act.

Our request for all records related to the Project is made pursuant to the California Public Records Act. (Government Code § 6250 et seq.) This request is also made pursuant to Article I, section 3(b) of the California Constitution, which provides a constitutional right of access to information concerning the conduct of government. Article I, section 3(b) provides that any statutory right to information shall be broadly construed to provide the greatest access to government information and further requires that any statute that limits the right of access to information shall be narrowly construed.

We will pay for any direct costs of duplication associated with filling this request up to $200. However, please contact me at (877) 810-7473 with a cost estimate before copying/scanning the materials.

Pursuant to Government Code Section 6253.9, if the requested documents are in electronic format and are 10 MB or less (or can be easily broken into sections of 10 MB or less), please email them to me as attachments.

My contact information is:

U.S. Mail

Jeff Modrzejewski
CREED LA
501 Shatto Place, Suite 200
Los Angeles, CA. 90020

Email
creedla@creedla.com

Please call me if you have any questions. Thank you for your assistance with this matter.

Sincerely,

Jeff Modrzejewski
Executive Director

Teamsters Local Union No. 396
Package and General Utility Drivers
Affiliated with the
INTERNATIONAL BROTHERHOOD OF TEAMSTERS

April 27, 2022

Mr. Alfonso Hernandez
City of Downey
11111 Brookshire Avenue
Downey, CA 90241
ashernandez@downeyca.org

RE: Prologis Stewart and Gray Road Warehouse Project

This letter is submitted on behalf of the members of Teamsters Local 396 and their families, who live and work throughout Downey. The Teamsters represent hundreds of thousands of workers in the logistics industry. These members not only work in the logistics industry, but very often live in communities impacted by this industry. The Teamsters membership has committed to actively improving the industry not only through improved working conditions, wages, benefits and safety, but also by mitigating and eventually eliminating its negative impacts on the quality of life of our members, their families, and their communities. Teamsters are committed to making sure their workplace is safe and healthy not only for themselves, but for their families and neighbors.

This comment covers matters raised in the Initial Study and recommends areas of concentration for the Environmental Impact Report (EIR) proposed for the above-named project.

Prologis (Applicant) is proposing demolishing five buildings, approximately 433,000 square feet of floor area, to construct a 510,110 industrial concrete tilt-up logistics facility and approximately 25,000 additional square feet of ancillary uses (collectively the Project). The property, at the northwest corner of Stewart and Gray Road and Woodruff Avenue (the Site), sits approximately 700 feet from a fairly dense residential neighborhood to the west, beginning on the east side of Coldbrook Avenue. The facility would include cold-storage capacity, allowing for delivery of groceries and other fresh and frozen foodstuffs.

Vehicle Miles Traveled and Traffic

The Initial Study (IS) found that there are potentially significant impacts throughout the area of transportation and traffic. Because of this, the IS calls for preparation of an EIR and therefore a traffic study. We would hope that this traffic study uses existing like facilities, or comparable facilities, to conduct this study, rather than relying exclusively or primarily on Institute of Transportation Engineers (ITE) Trip Generation Manual categorical codes. This is because a facility that will be permitted to allow e-commerce style fulfillment and deliveries, particularly one with cold-storage capacity, will not be adequately understood through use of these categories.

For example, the ITE manual's category for warehouses with cold storage capacity provides a per-unit (i.e., per 1,000 square foot) trip-generation multiplier of 0.12. In other words, for every 10,000 square feet of cold-storage warehouse there is an assumption of 1.2 trips per day.

This rubric however is more appropriate for warehouses that deliver bulk goods to retail grocers and wholesalers, rather than an e-commerce facility that uses cold storage capacity to fulfill consumers' orders on a rolling basis throughout the day, seven days a week.

There is a similar issue with the non-cold storage elements of the Project. E-commerce represents a fundamentally new use from traditional warehouses uses, and in particular those currently extant on the site. E-commerce delivery stations generate a different type of traffic, and therefore vehicle miles, than traditional warehouses. The ITE Manual predicates its assumptions in large part on the number of warehouse employees per square footage of floor space, plus freight deliveries to and from the site of the warehouse. However this is not the character of e-commerce facilities: while there are of course warehouse workers who come to work at the beginning of the shift and do not leave until the end of their shift, there are a considerable number–likely a larger number–of workers who pick up packages, even in passenger vehicles, for delivery directly to consumers throughout the day. This not only significantly increases traffic activity at and around the site, but also impacts residential areas where these vehicles are delivering packages. Not only does it increase the number of vehicles passing through these neighborhoods (and therefore the numbers of vehicle miles traveled) but it also changes traffic patterns in these neighborhoods because of the behavior of vehicles performing numerous deliveries: frequent stopping, driving at lower speeds, idling, and taking up curb space or double parking.

While a particular end user may not have yet been identified, these are all potential uses because they would be permitted within this zoning designation. It is the purpose of CEQA that reasonably foreseeable uses that can result from approval of a discretionary project be studied. We therefore urge the city to include within its transportation analysis all of the foregoing, with particular attention paid to the need to study actually-existing e-commerce style uses, including with cold storage capacity, to accurately understand the impacts of this new type of use.

<u>Economic Impact Study/Urban Decay</u>

While economic impact and urban decay was not outlined in the IS, we believe it warrants future study given the novel form of this use and adverse impact on “brick-and-mortar” (physical location) retailers, and the potential for long-term “dark” (empty) retail space resulting in urban decay which impacts the physical environment, including by contributing to longer vehicle trips and therefore vehicle miles traveled.

We concede that this is a complex question, because the addition of significant amounts of e-commerce delivery capacity to the city has the potential to alter consumer behavior and have a snowballing or cumulative impact on existing retailers over time. For example, particularly given the persistence of COVID-19 pandemic conditions and the related explosion in e-commerce same-day delivery, the ability of e-commerce retailers to satisfy same-day delivery demands of consumers for household goods and groceries that are typically the provenance of brick-and-mortar retailers will steadily increase. In turn, consumer behavior will turn away from brick-and-mortar facilities, causing closures and fewer shopping options (contributing to longer drive times for fewer stores). Once this consumer pattern becomes widely adopted, retail store closures risk becoming persistent and urban decay could result.

We encourage the City to undertake some degree of at least preliminary study of this question.

<u>Air Quality/Energy Consumption</u>

Given the size and intensity of this facility, its potential e-commerce character, and its proximity to several densely populated residential neighborhoods, it is particularly important that the City pay close attention to indirect-source emissions from delivery vehicles, the potential aggravation of existing health effects in the surrounding community, and contemporary, available technologies that can significantly reduce energy consumption. These areas need to be studied with particularity for the environmental impact report to adequately account for the potentially significant impacts of this facility.

Sincerely,

Victor Mineros

Director of Organizing
Teamsters Local 396

Appendix B

Air Quality and Greenhouse Gas Emissions Technical Report

HELIX Environmental Planning

Prologis Stewart and Gray Road Warehouse Project

Air Quality and Greenhouse Gas Emissions Technical Report

September 2023 | 04967.00001.001

Submitted to:

City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Prepared for:

Prologis, Inc.
2141 Rosecrans Avenue, Suite 1151
El Segundo, CA 90245

Prepared by:

HELIX Environmental Planning, Inc.
16485 Laguna Canyon Road, Suite 150
Irvine, CA 92618

This page intentionally left blank

Table of Contents

Section **Page**

EXECUTIVE SUMMARY ES-1

1.0 INTRODUCTION 1

1.1 Project Location 1
1.2 Project Description 1
1.3 Construction Activities and Phasing 1

2.0 REGULATORY SETTING 2

2.1 Air Quality 2
2.1.1 Air Pollutants of Concern 2
2.1.2 Federal Air Quality Regulations 5
2.1.3 California Air Quality Regulations 7
2.1.4 Local Regulations 8
2.2 Greenhouse Gases 9
2.2.1 Climate Change Overview 9
2.2.2 Types of Greenhouse Gases 10
2.2.3 Federal Greenhouse Gas Regulations 12
2.2.4 California Greenhouse Gas Regulations 12
2.2.5 Regional GHG Emission Policies and Plans 17

3.0 EXISTING CONDITIONS 17

3.1 Climate and Meteorology 18
3.2 Sensitive Receptors 18
3.3 Existing Air Quality 19
3.3.1 Criteria Pollutants 19
3.3.2 Community Health Risks 21
3.3.3 Greenhouse Gases 21

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA 22

4.1 Methodology 22
4.1.1 Construction Emissions 23
4.1.2 Operation Emissions 26
4.1.3 Localized Significance Threshold Methodology 27
4.1.4 Health Risk Assessment 28
4.2 Significance Criteria 32
4.2.1 Air Quality 32
4.2.2 Greenhouse Gases 33

Table of Contents (cont.)

5.0 AIR QUALITY IMPACT ANALYSIS 35

5.1 Issue 1: Conflicts With Air Quality Plans 35
5.1.1 Impacts 35
5.1.2 Significance of Impacts 35
5.1.3 Mitigation Framework 35
5.1.4 Significance After Mitigation 35
5.2 Issue 2: Cumulatively Considerable Net Increase of Nonattainment Criteria Pollutants 36
5.2.1 Impacts 36
5.2.2 Significance of Impacts 38
5.2.3 Mitigation Framework 38
5.2.4 Significance After Mitigation 38
5.3 Issue 3: Impacts to Sensitive Receptors 38
5.3.1 Impacts 38
5.3.2 Significance of Impacts 44
5.3.3 Mitigation Framework 44
5.3.4 Significance After Mitigation 44
5.4 Issue 4: Other Emissions (Such as Those Leading to Odors) 45
5.4.1 Impacts 45
5.4.2 Significance of Impacts 45
5.4.3 Mitigation Framework 45
5.4.4 Significance After Mitigation 45

6.0 GREENHOUSE GAS EMISSIONS IMPACT ANALYSIS 45

6.1 Issue 1: Greenhouse Gas Emissions 45
6.1.1 Construction Emissions 45
6.1.2 Operational Emissions 46
6.1.3 Significance of Impacts 47
6.1.4 Mitigation Framework 47
6.1.5 Significance After Mitigation 47
6.2 Issue 2: Conflict With Applicable Plans Adopted for the Purpose of Reducing GHG Emissions 47
6.2.1 Impacts 47
6.2.2 Significance of Impacts 48
6.2.3 Mitigation Framework 48
6.2.4 Significance After Mitigation 48

7.0 LIST OF PREPARERS 48

8.0 REFERENCES 49

Table of Contents (cont.)

LIST OF APPENDICES

A CalEEMod Output
B HRA Modeling

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	Aerial Photograph	2
3	Site Plan	2
4	Receptor Locations	32

LIST OF TABLES

No.	Title	Page
1	Common Sources and Human Health Effects of Criteria Air Pollutants	3
2	Ambient Air Quality Standards	5
3	South Coast Air Basin Attainment Status	7
4	Global Warming Potentials and Atmospheric Lifetimes	11
5	Air Quality Monitoring Data	20
6	Existing Land Use Maximum Daily Emissions	21
7	California Greenhouse Gas Emissions By Sector	22
8	Existing Land Use Annual GHG Emissions	22
9	Anticipated Construction Schedule	24
10	Construction Equipment Assumptions	25
11	SCAQMD Thresholds of Significance	33
12	Maximum Daily Construction Emissions	37
13	Maximum Daily Operational Emissions	37
14	Maximum Localized Daily Construction Emissions	39
15	Maximum Incremental Cancer Health Risk	43
16	Estimated Construction GHG Emissions	46
17	Net Operational GHG Emissions	47

Acronyms and Abbreviations

AB	Assembly Bill
ACM	asbestos containing material
ADMRT	Air Dispersion Modeling and Risk Tool
AERMAP	AERMOD terrain preprocessor
AERMOD	USEPA gaussian plume air dispersion model
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
C_2F_6	hexafluoroethane
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CF_4	tetraflouromethane
CFC	chlorofluorocarbon
CFR	Code of Federal Regulations
CH_4	methane
City	City of Downey
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CY	cubic yard
DEIR	draft environmental impact report
DPM	diesel particulate matter
DTSC	Department of Toxic Substances Control
EIR	Environmental Impact Report
EO	Executive Order
EV	electric vehicle
GHG	greenhouse gas
GM	General Manufacturing
GVW	gross vehicle weight
GWP	global warming potential

Acronyms and Abbreviations (cont.)

HFC	hydrofluorocarbon
HHDT	heavy-heavy duty truck
HRA	Health Risk Assessment
I-	Interstate
IPCC	Intergovernmental Panel on Climate Change
kW	kilowatts
kWhr	kilowatts-hours
LCFS	Low Carbon Fuel Standard
LHDT	light-heavy duty truck
LLG	Linscott Law & Greenspan, Engineers
LOS	Level of Service
LST	localized significance threshold
MATES	Multiple Air Toxics Exposure Study
MEIR	maximally exposed individual resident
MEIW	maximally exposed individual worker
mg/m^3	milligrams per cubic meter
MHDT	medium-heavy duty truck
MMT	million metric tons
mpg	miles per gallon
mph	miles per hour
MT	metric tons
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NASA	National Aeronautics and Space Administration
NED	National Elevation Dataset
NHTSA	National Highway Traffic Safety Administration
NO	nitrogen oxide
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
O_3	ozone
OCPs	organochlorine pesticides
Pb	lead
PFC	perfluorocarbon
PM_{10}	particulate matter 10 microns or less in diameter
$PM_{2.5}$	particulate matter 2.5 microns or less in diameter
ppm	parts per million
PRC	Public Resources Code

Acronyms and Abbreviations (cont.)

REL	Reference Exposure Limit
RMP	Risk Management Policy
ROG	reactive organic gas
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SF	Square feet/foot
SF_6	hexafluoride
SIP	State Implementation Plan
SO_2	sulfur dioxide
SO_X	sulfur oxides
SRA	source receptor area
SVE	soil vapor extraction
TACs	toxic air contaminants
TIS	Transportation Impact Study
TPH	total petroleum hydrocarbons
TRU	transport refrigeration unit
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VMT	vehicle miles traveled
VOC	volatile organic compound

EXECUTIVE SUMMARY

This report presents an assessment of potential air quality and greenhouse gas (GHG) emission impacts resulting from implementation of the Prologis Stewart and Gray Road Warehouse Project (project) located in the City of Downey (City). The project would replace the existing businesses on the project site, remove five existing buildings totaling approximately 433,000 square feet (SF), and construct and operate an approximately 535,685 SF industrial building for warehouse/logistics uses.

The project would be consistent with the General Manufacturing (GM) land use designation in the Downey General Plan Vision 2025. Therefore, the project contribution to regional employment growth would be accounted for in regional planning documents (e.g., general plans, Regional Transportation Plan/Sustainable Communities Strategy) used to develop control measures in the South Coast Air Quality Management District's (SCAQMD) Air Quality Management Plan (AQMP). The project would not conflict with the 2022 AQMP.

The project would result in emissions of criteria air pollutants during construction and operation. In accordance with SCAQMD Rule 403, fugitive dust control measures would be required. Project emissions of criteria pollutants and precursors during construction or operation would not exceed the SCAQMD emissions thresholds. Impacts related to cumulatively considerable net increases of criteria pollutants in the region would be less than significant.

Project-generated traffic would not result in a carbon monoxide hot spot. Construction and operation of the project would not result in exposure of sensitive receptors to significant quantities of toxic air contaminants or substantial localized criteria pollutant and precursor concentrations, as analyzed following SCAQMD's Localized Significance Thresholds (LTSs) Methodology. A health risk assessment (HRA) was conducted to evaluate potential community health risks from exposure to diesel particulate matter (DPM) emitted by off-road construction equipment, construction haul trucks, and trucks related to operation of the proposed warehouse. Community cancer risk, chronic health risk, and cancer burden would not exceed the SCAQMD thresholds. Impacts related to exposure of sensitive receptors to substantial pollutant concentrations would be less than significant.

The project would not generate other emissions (such as those leading to odors) that would affect a substantial number of people.

GHG emissions resulting from construction and operation of the project would not exceed the SCAQMD's screening threshold for non-industrial facilities. The project would not conflict with any applicable GHG emission reduction plans. Impacts related to GHG emissions and conflicts with GHG emission reduction plans and policies would be less than significant.

This page intentionally left blank

1.0 INTRODUCTION

This report presents an assessment of potential air quality and greenhouse gas (GHG) emission impacts resulting from construction and operation of the proposed Prologis Stewart and Gray Road Warehouse Project (project). This report has been prepared to support an Environmental Impact Report (EIR) in accordance with the California Environmental Quality Act (CEQA; California Public Resources Code [PRC] §21000 et seq.); State CEQA Guidelines (California Code of Regulations [CCR], Title 14, §15000 et seq.).

1.1 PROJECT LOCATION

The approximately 29.16-acre project site is located in the southeastern portion of the City of Downey (City) in southwestern Los Angeles County. The project site is located approximately ten miles southeast of downtown Los Angeles and nine miles northwest of the County of Orange. Regional access is provided via the following freeways: the Santa Ana Freeway (Interstate 5 [I-5]), the San Gabriel Freeway (I-605), the Century Freeway (I-105), and the Long Beach Freeway (I-710). Primary vehicular access to the project site is provided by Stewart and Gray Road, Woodruff Avenue, and Hall Road. The project site is within the western Los Angeles County portion of the South Coast Air Basin (SCAB). Air quality in the project area is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). See Figure 1, *Regional Location*, and Figure 2, *Aerial Photograph*.

1.2 PROJECT DESCRIPTION

The project would remove existing buildings totaling approximately 433,000 square feet (SF) on the project site, and construct and operate an approximately 535,685-SF industrial concrete tilt-up building for warehouse/logistics uses. The project would include 683 auto parking spaces, 255 trailer and/or container parking spaces and 109 dock loading doors. The new industrial building would be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. Approximately 95 percent of the warehouse (484,605 SF) would be high cube fulfillment and the remaining 5 percent (26,785 SF) would be for cold storage (i.e., refrigerated warehouse space). The facility would also include 20,000 SF of office area and 25,000 SF of mezzanine area within the 535,685-SF building. On-site activities would include storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery; and general industrial/warehouse with refrigeration and cold storage component for the purposes of receiving, storing, shipping of food and/or beverage products. The office space would be used for office uses ancillary to the warehouse operations. See Figure 3, *Site Plan*. The proposed facility would operate 24 hours a day, seven days a week. The project would also include off-site improvements within the right-of-way of Hall Road and Stewart and Gray Road along the project's roadway frontage. Off-site improvements would include underground utilities, project site driveway access, sidewalks, curbs and gutters, landscaping, and lighting.

1.3 CONSTRUCTION ACTIVITIES AND PHASING

Construction of the project would begin in Spring 2024 with demolition/site preparation to remove all existing on-site structures, paving, and other improvements. Demolition/site preparation would last approximately 4 to 5 months. Following demolition/site preparation, grading, off-site improvements, construction of the proposed new building, and paving would begin in late spring 2024 and continue for approximately 14 months. Construction activities would finish in Spring 2025. Demolition and site

preparation would include the removal of the existing structures on the site totaling approximately 433,000 SF. Approximately 75,000 cubic yards (CY) of soil would be exported from the site during grading. As described in the project draft environmental impact report (DEIR), Section 4.7, Hazards and Hazardous Materials, asbestos containing material (ACM) and lead based paint (LBP) has been identified in existing buildings on the project site. In addition, soil vapor testing has identified volatile organic compounds (VOCs) exceeding Department of Toxic Substances Control (DTSC) screening levels. Material handling requirements for demolition activities and disturbance of contaminated soil, and potential impacts to sensitive receptors, are discussed in the Air Quality Impact Analysis, Section 5.3, below.

Project construction would be required to implement all applicable fugitive dust best available control measures specified in Table 1 of the SCAQMD Rule 403, Fugitive Dust (SCAQMD 2005), including, but not limited to: the use of an on-site water truck to wet down exposed areas at least twice daily, and limiting vehicle speeds to 25 miles per hour (mph).

2.0 REGULATORY SETTING

2.1 AIR QUALITY

The project site is located within the SCAB. Air quality in the SCAB is regulated by the U.S. Environmental Protection Agency (USEPA) at the federal level, by the California Air Resources Board (CARB) at the state level, and by the SCAQMD at the regional level.

2.1.1 Air Pollutants of Concern

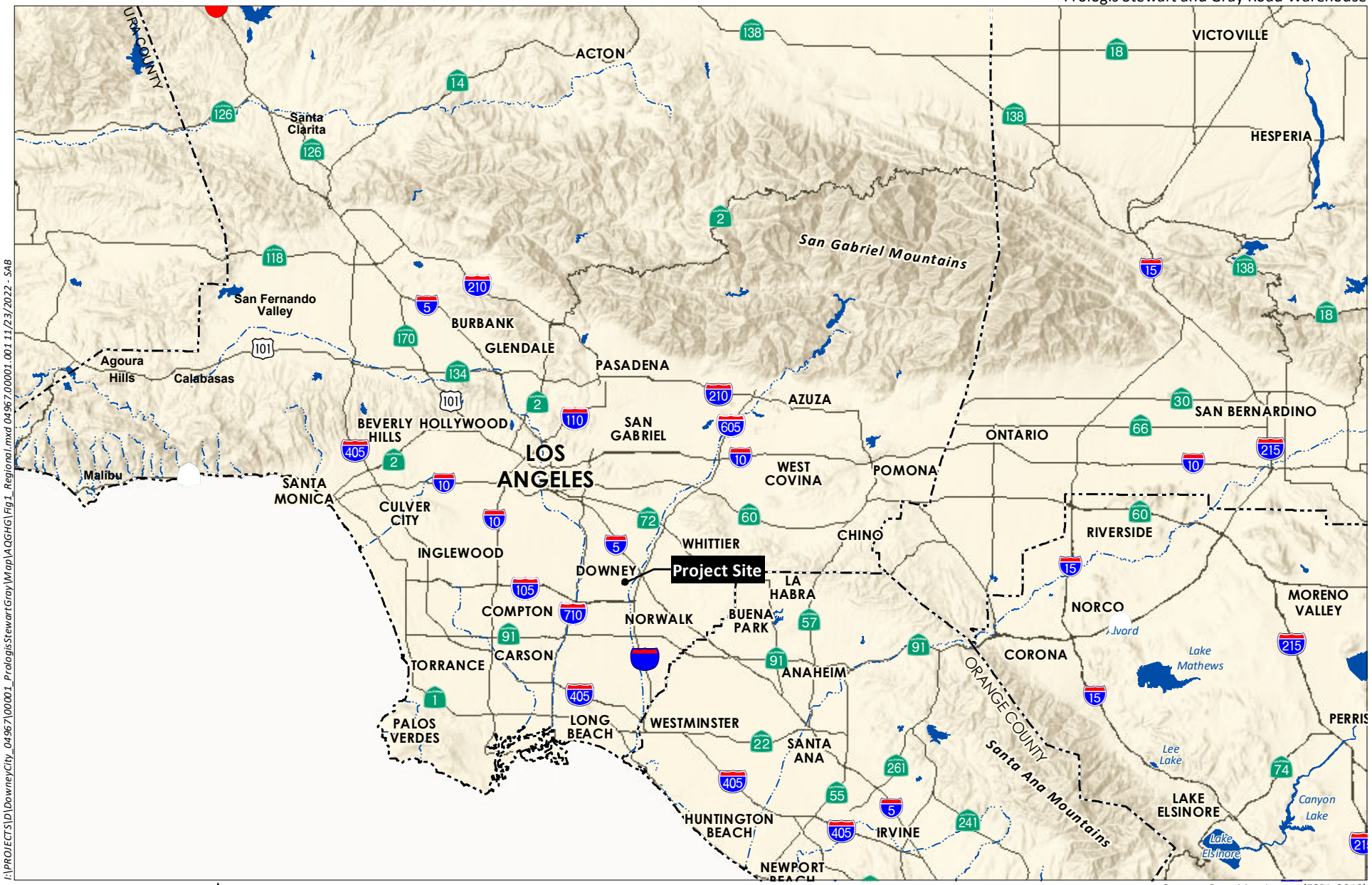
2.1.1.1 Criteria Pollutants

Criteria pollutants are defined by state and federal law as a risk to the health and welfare of the general public. In general, criteria air pollutants include the following compounds:

- Ozone (O_3)
- Carbon monoxide (CO)
- Nitrogen dioxide (NO_2)
- Particulate matter (PM), which is further subdivided:
  - Coarse PM, 10 microns or less in diameter (PM_{10})
  - Fine PM, 2.5 microns or less in diameter ($PM_{2.5}$)
- Sulfur dioxide (SO_2)
- Lead (Pb)

Criteria pollutants can be emitted directly from sources (primary pollutants; e.g., CO, SO_2, PM_{10}, $PM_{2.5}$, and lead), or they may be formed through chemical and photochemical reactions of precursor pollutants in the atmosphere (secondary pollutants; e.g., ozone, NO_2, PM_{10}, and $PM_{2.5}$). PM_{10} and $PM_{2.5}$ can be both primary and secondary pollutants. The principal precursor pollutants of concern are reactive organic gases ([ROGs] also known as volatile organic compounds [VOCs])[1] and nitrogen oxides (NO_X).

[1] CARB defines and uses the term ROGs while the USEPA defines and uses the term VOCs. The compounds included in the lists of ROGs and VOCs and the methods of calculation are slightly different. However, for the purposes of estimating criteria pollutant precursor emissions, the two terms are often used interchangeably.



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\AQGHG\Fig1_Regional.mxd 04967.00001.001 11/23/2022 - SAB

0 10 Miles

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1

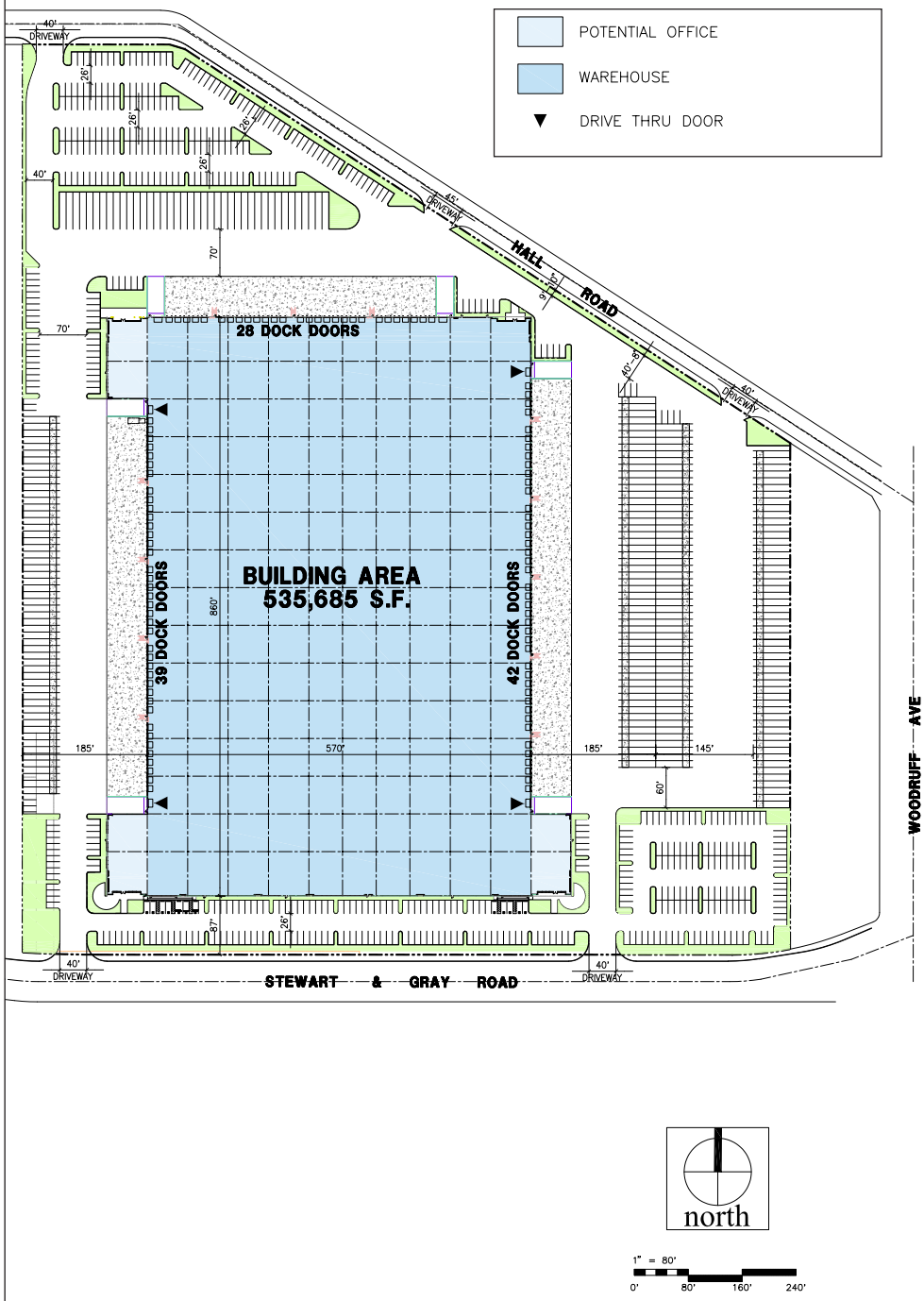
0 300 Feet

Source: Aerial (Maxar, 2021)

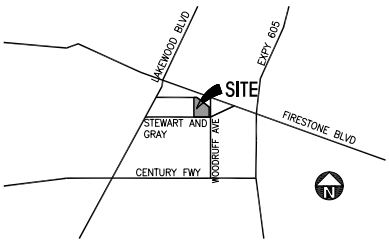
HELIX Environmental Planning

Aerial Photograph

Figure 2



Aerial Map



Tabulation

SITE AREA		
In s.f.	1,270,210	s.f.
In acres	29.16	ac
BUILDING AREA		
Office	20,000	s.f.
Mezzanine	25,000	s.f.
Warehouse	490,685	s.f.
TOTAL	535,685	s.f.
COVERAGE		
	42.2%	
AUTO PARKING REQUIRED		
Office: 1/300 s.f.(if exceeds 30% of GFA)		
Whse: 1/800 s.f.	667	stalls
TOTAL	670	stalls
AUTO PARKING PROVIDED		
Standard (9' x 20')	491	stalls
Accessible Van (12'x20')	2	stalls
Standard ADA (9' x 20')	9	stalls
Accessible Van Future EV (12'	1	stall
Standard ADA Future EV (9'x2	1	stall
Ambulatory Future EV (12'x20'	1	stall
Clean Air/Van Pool/EV	10	stalls
Standard Future EV	29	stalls
Total Auto Parking Provided	544	stalls
Auto Parking In Lieu of Trailer	139	stalls
Total Parking in Lieu of Trailer	683	stalls
TRAILER PARKING REQUIRED		
1 Per 4 Dock Doors	46	stalls
TRAILER PARKING PROVIDED		
Trailer (12' x 55')	255	stalls
ZONING ORDINANCE FOR CITY		
Zoning Designation - M-2		
MAXIMUM BUILDING HEIGHT ALLOWED		
Height - 45' or 3 stories		
MAXIMUM COVERAGE		
Coverage - no limit		
SETBACKS		
Front / Street side - 10'		
Side - none (abutting a nonresidential zone)		
Rear - 20' (abutting a nonresidential zone)		
LANDSCAPE REQUIRED		
Required Landscape	10%	
LANDSCAPE PROVIDED		
percentage	10.5%	
in s.f.	77,432	s.f.

I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\AQGHG\Fig3_SitePlan.indd 04967.00001.001 11/23/2022 - SAB

Source: HPA Architecture 2022

HELIX Environmental Planning

Site Plan

Figure 3

The descriptions of sources and general health effects for each of the criteria air pollutants are shown in Table 1, *Common Sources and Human Health Effects of Criteria Air Pollutants*, based on information provided by the California Air Pollution Control Officers Association ([CAPCOA] 2022). Specific adverse health effects on individuals or population groups induced by criteria pollutant emissions are highly dependent on a multitude of interconnected variables such as cumulative concentrations, local meteorology and atmospheric conditions, and the number and characteristics of exposed individuals (e.g., age, gender). Criteria pollutant precursors (ROG and NO_X) affect air quality on a regional scale, typically after significant delay and distance from the pollutant source emissions. Health effects related to ozone and NO_2 are, therefore, the product of emissions generated by numerous sources throughout a region. Emissions of criteria pollutants from vehicles traveling to or from the project site (mobile emissions) are distributed nonuniformly in location and time throughout the region, wherever the vehicles may travel. As such, specific health effects from these criteria pollutant emissions cannot be meaningfully correlated to the incremental contribution from the project.

Table 1
COMMON SOURCES AND HUMAN HEALTH EFFECTS OF CRITERIA AIR POLLUTANTS

Pollutant	Major Man-Made Sources	Human Health Effects
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to climate change and nutrient overloading, which deteriorates water quality. Causes brown discoloration of the atmosphere.
Ozone (O_3)	Formed by a chemical reaction between reactive organic gases (ROGs) and nitrogen oxides (NO_X) in the presence of sunlight. Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, gasoline storage and transport, solvents, paints, and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. Damages rubber, some textiles, and dyes.
Particulate Matter (PM_{10} and $PM_{2.5}$)	Produced by power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles, and other sources.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Sulfur Dioxide (SO_2)	A colorless, nonflammable gas formed when fuel containing sulfur is burned, when gasoline is extracted from oil, or when metal is extracted from ore. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid, which can damage marble, iron, and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.

Pollutant	Major Man-Made Sources	Human Health Effects
Lead	Metallic element emitted from metal refineries, smelters, battery manufacturers, iron and steel producers, use of leaded fuels by racing and aircraft industries.	Anemia, high blood pressure, brain and kidney damage, neurological disorders, cancer, lowered IQ. Affects animals, plants, and aquatic ecosystems.

Source: CARB 2023a; USEPA 2023a

2.1.1.2 Toxic Air Contaminants

The Health and Safety Code (§39655, subd. (a).) defines a toxic air contaminant (TAC) as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant pursuant to subsection (b) of Section 112 of the Federal Clean Air Act (CAA) (42 United States Code Section 7412[b]) is a TAC. Under State law, the California Environmental Protection Agency (CalEPA), acting through CARB, is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health.

Diesel Particulate Mater

Diesel engines emit a complex mixture of air pollutants, including both gaseous and solid material. The solid material in diesel exhaust is referred to as diesel particulate matter (DPM). Almost all DPM is 10 microns or less in diameter, and 90 percent of DPM is 2.5 microns or less in diameter (CARB 2023b). Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung. In 1998, CARB identified DPM as a TAC based on published evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects. DPM has a notable effect on California's population—it is estimated that about 70 percent of total known cancer risk related to air toxics in California is attributable to DPM (CARB 2023b).

Asbestos Containing Material

Asbestos is a mineral fiber that naturally occurs in some rock and soil. Long-term exposure to airborne asbestos fibers has been linked to major health effects including lung cancer; mesothelioma, a rare form of cancer that is found in the thin lining of the lung, chest and the abdomen and heart; and asbestosis, a serious progressive, long-term, non-cancer disease of the lungs (USEPA 2023c). Because of its fiber strength and heat resistance, asbestos has been used in a variety of building construction materials for insulation and as a fire retardant, primarily in buildings constructed before 1979. Asbestos fibers may be released into the air by the disturbance of ACM during demolition activities. ACMs may be present in building materials such as walls, ceilings, insulation, or fireproofing in older (pre-1979) buildings.

Lead Based Paint

Lead is a naturally occurring metallic element that is found in small amounts in the earth's crust. In addition to its status as a criteria pollutant, lead is listed as a TAC because, depending on the level and duration of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. There is also a probable link between lead exposure and kidney cancer, brain cancer (gliomas), and lung cancer (USEPA 2023d). Lead particulate matter can be emitted during demolition activities that disturb material that contains lead-based paint (LBP), most typically found in structures built before 1978.

Toxics Best Available Control Technology

Diesel powered on-road (highway) trucks are a potential source of DPM. In addition, some transport refrigeration units (TRUs) are powered by a small diesel engine and are a potential source of DPM. TRUs provide cooling for trucks and/or trailers which transport goods requiring refrigeration. The Toxics Best Available Control Technology (T-BACT) for operation of diesel internal combustion engines is compliance with USEPA and CARB emissions standards. All heavy-duty diesel powered on-road vehicles manufactured since 2010 are required to meet USEPA emissions standards, including reductions of emissions of DPM by approximately 90 percent compared to unregulated engines (USEPA 2023c). Diesel powered TRUs are considered nonroad equipment. The USEPA has promulgated multiple tiers of emissions standard (with Tier 4 being the most stringent) for nonroad diesel engines manufactured, depending on engine horsepower and application. CARB regulations require diesel engines used in TRUs, with 25 or more horsepower, sold in California since 2012 to be USEPA Tier 4 Interim certified (CARB 2011).

2.1.2 Federal Air Quality Regulations

2.1.2.1 Federal Clean Air Act

Air quality is defined by ambient air concentrations of specific pollutants identified by the USEPA to be of concern with respect to health and welfare of the general public. The USEPA is responsible for enforcing the CAA of 1970 and its 1977 and 1990 Amendments. The CAA required the USEPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. In response, the USEPA established both primary and secondary standards for several criteria pollutants. Table 2, *Ambient Air Quality Standards*, shows the federal and state ambient air quality standards for these pollutants.

Table 2
AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards	Federal Standards Primary[1]	Federal Standards Secondary[2]
O_3	1 Hour	0.09 ppm (180 µg/m^3)	–	–
	8 Hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	Same as Primary
PM_{10}	24 Hour	50 µg/m^3	150 µg/m^3	Same as Primary
	AAM	20 µg/m^3	–	Same as Primary
$PM_{2.5}$	24 Hour	–	35 µg/m^3	Same as Primary
	AAM	12 µg/m^3	12.0 µg/m^3	15.0 µg/m^3
CO	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	–
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)	–	–
NO_2	1 Hour	0.18 ppm (339 µg/m^3)	0.100 ppm (188 µg/m^3)	–
	AAM	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as Primary
SO_2	1 Hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m^3)
	24 Hour	0.04 ppm (105 µg/m^3)	–	–

Pollutant	Averaging Time	California Standards	Federal Standards Primary[1]	Federal Standards Secondary[2]
Lead	30-day Avg.	1.5 µg/m^3	–	–
	Calendar Quarter	–	1.5 µg/m^3	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m^3	Same as Primary
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	No Federal Standards	No Federal Standards
Sulfates	24 Hour	25 µg/m^3	No Federal Standards	No Federal Standards
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	No Federal Standards	No Federal Standards
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m^3)	No Federal Standards	No Federal Standards

Source: CARB 2016

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

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

O_3 = ozone; ppm: parts per million; µg/m^3 = micrograms per cubic meter; PM_{10} = particulate matter 10 microns or less in diameter; AAM = Annual Arithmetic Mean; $PM_{2.5}$ = fine particulate matter 2.5 microns or less in diameter; CO = carbon monoxide; mg/m^3 = milligrams per cubic meter; NO_2 = nitrogen dioxide; SO_2 = sulfur dioxide; km = kilometer; – = No Standard

The USEPA has classified air basins (or portions thereof) as being in "attainment," "nonattainment," "maintenance," or "unclassified" for each criteria air pollutant, based on whether or not the NAAQS have been achieved. Upon attainment of a standard for which an area was previously designated nonattainment, the area will be classified as a maintenance area. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for a nonattainment or attainment designation. The project site is located within the Los Angeles County portion of the SCAB and, as such, is in an area designated as a nonattainment area for certain pollutants that are regulated under the CAA. Table 3, *South Coast Air Basin Attainment Status*, lists the federal and state attainment status of the SCAB for the criteria pollutants. With respect to federal air quality standards, the USEPA classifies the SCAB as in attainment for PM_{10}, CO, NO_2, SO_2, and lead, and in nonattainment for 8-hour ozone and $PM_{2.5}$.

Table 3
SOUTH COAST AIR BASIN ATTAINMENT STATUS

Criteria Pollutant	Federal Designation	State Designation
Ozone (O_3) (1-hour)	(No federal standard)	Nonattainment
Ozone (O_3) (8-hour)	Extreme Nonattainment	Nonattainment
CO (Carbon Monoxide (CO)	Attainment (Maintenance)	Attainment
Respirable Particulate Matter (PM_{10})	Attainment (Maintenance)	Nonattainment
Fine Particulate Matter ($PM_{2.5}$)	Serious Nonattainment	Nonattainment
Nitrogen Dioxide (NO_2)	Attainment (Maintenance)	Attainment
Sulfur Dioxide (SO_2)	Unclassifiable/Attainment	Unclassifiable/Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen Sulfide	(No federal standard)	Attainment
Visibility	(No federal standard)	Attainment

Source: SCAQMD 2016a

2.1.3 California Air Quality Regulations

2.1.3.1 California Clean Air Act

The federal CAA allows states to adopt ambient air quality standards and other regulations provided that they are at least as stringent as federal standards. CARB, a part of the CalEPA, is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the California Ambient Air Quality Standards (CAAQS). CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In addition to primary and secondary AAQS, the state has established a set of episode criteria for ozone, CO, NO_2, SO_2, and PM. These criteria refer to episode levels representing periods of short-term exposure to air pollutants that actually threaten public health. Table 3, above, lists the state attainment status of the SCAB for the criteria pollutants. Under state designation, the SCAB is currently in attainment for CO, NO_2, SO_2, and lead; and in nonattainment for ozone, PM_{10}, and $PM_{2.5}$.

2.1.3.2 State Implementation Plan

The CAA requires areas with unhealthy levels of ozone, inhalable particulate matter, carbon monoxide, nitrogen dioxide, and sulfur dioxide to develop plans, known as State Implementation Plans (SIPs). SIPs are comprehensive plans that describe how an area will attain the NAAQS. The 1990 amendments to the CAA set deadlines for attainment based on the severity of an area's air pollution problem.

SIPs are not single documents—they are a compilation of new and previously submitted plans, programs (e.g., monitoring, modeling, permitting), district rules, state regulations and federal controls. Many of California's SIPs rely on a core set of control strategies, including emission standards for cars and heavy trucks, fuel regulations and limits on emissions from consumer products. State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB forwards the SIP revisions to the USEPA for

approval and publication in the Federal Register. The Code of Federal Regulations (CFR) Title 40, Chapter I, Part 52, Subpart F, Section 52.220 lists all of the items that are included in the California SIP (CARB 2023c). At any one time, several California submittals are pending USEPA approval.

2.1.3.3 California Energy Code

California Code of Regulations (CCR) Title 24 Part 6, California's Energy Efficiency Standards for Residential and Nonresidential Buildings, were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for space and water heating) results primarily in GHG emissions. The California Energy Code is discussed in further detail in Section 2.2.4, below.

2.1.4 Local Regulations

2.1.4.1 South Coast Air Quality Management District

Air quality in the SCAB portion of Los Angeles County is regulated by the SCAQMD. As a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), County transportation commissions, and local governments and cooperates actively with all federal and state government agencies. The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary.

Air Quality Management Plan

The SCAQMD is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources. It has responded to this requirement by preparing a sequence of Air Quality Management Plans (AQMP).

On December 2, 2022, the SCAQMD adopted the 2022 AQMP, which is a regional and multi-agency effort (SCAQMD, CARB, SCAG, and USEPA). The 2022 AQMP represents a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures. The plan seeks to achieve multiple goals in partnership with other entities promoting reductions in criteria pollutant, GHGs, and toxic risk, as well as efficiencies in energy use, transportation, and goods movement. Included in the 2022 AQMP are updated strategies and control measures to address the designation of the SCAB as an "extreme" nonattainment area for the 2015 NAAQS 8-hour ozone standard. To meet the 2015 NAAQS ozone standard, an additional 67 percent reduction of NO_X will be required compared to the reductions forecast to occur by 2037 (as required by current adopted rules and regulations). Achieving the NO_X reductions will require extensive use of zero emission technologies across all stationary and mobile sources. The overwhelming majority of NO_X emissions are from heavy-duty trucks, ships and other State and federally regulated mobile sources that are mostly beyond the SCAQMD's control. The region will not meet the NAAQS ozone standard absent significant federal action. In addition to federal action, the 2022 AQMP requires substantial reliance on future deployment of advanced technologies to meet the NAAQS ozone standard (SCAQMD 2022).

The AQMP, in combination with those from all other California nonattainment areas with serious (or worse) air quality problems, is submitted to CARB, which develops the California SIP. The SIP relies on the same information from SCAG to develop emission inventories and emission reduction strategies that

are included in the attainment demonstration for the air basin. The current federal and state attainment status for the SCAB is presented above, in Table 3.

Rules and Regulations

The following rules promulgated by the SCAQMD would be applicable to construction and/or operation of the project.

Rule 401 – Visible Emissions: Limits the allowable opacity of air contaminant emissions from any single source (SCAQMD 2001a).

Rule 402 – Nuisance: Prohibits the discharge of air contaminants, including odors, which cause injury, detriment, nuisance, or annoyance to any considerable number of persons (SCAQMD 1976).

Rule 403 – Fugitive Dust: Requires actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions, including emissions from construction activities. Project construction would be required to implement all applicable fugitive dust best available control measures specified in Table 1 in the rule (SCAQMD 2005).

Rule 1113 – Architectural Coating: Establishes VOC limits for architectural coatings (e.g., paints, stains, preservatives). Effective January 1, 2019, building interior and exterior paint is limited to a maximum VOC content of 50 grams per liter (SCAQMD 2016b).

Rule 1166 – Volatile Organic Compound Emissions from Decontamination of Soil: Sets requirements to control the emission of VOCs from excavating, grading, handling, and treating VOC-contaminated soil as a result of leakage from storage or transfer operations, accidental spillage, or other deposition (SCAQMD 2001b).

Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities: Specifies work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of ACM. The requirements for demolition and renovation activities include asbestos surveying, notification, ACM removal procedures and time schedules, ACM handling and clean-up procedures, and storage, disposal, and landfilling requirements for asbestos-containing waste materials (SCAQMD 2007).

Rule 2305 – Warehouse Indirect Source Rule: Requires owners and operators of warehouses with 100,000 SF or more of indoor floor space in a single building to directly reduce NO_X and PM emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities (SCAQMD 2021a).

2.2 GREENHOUSE GASES

2.2.1 Climate Change Overview

Global climate change refers to changes in average climatic conditions on Earth including temperature, wind patterns, precipitation, and storms. Global temperatures are moderated by atmospheric gases. These gases are commonly referred to as GHGs because they function like a greenhouse by letting sunlight in but preventing heat from escaping, thus warming the Earth's atmosphere.

GHGs are emitted by natural processes and human (anthropogenic) activities. Anthropogenic GHG emissions are primarily associated with: (1) the burning of fossil fuels during motorized transport, electricity generation, natural gas consumption, industrial activity, manufacturing, and other activities; (2) deforestation; (3) agricultural activity; and (4) solid waste decomposition.

The temperature record shows a decades-long trend of warming, with 2016 and 2020 global surface temperatures tied for the warmest year on record since 1880 (National Aeronautics and Space Administration [NASA] 2023a). The newest release in long-term warming trends announced 2022 ranked as tied with 2015 for the sixth warmest year on record with an increase of 1.6 degrees Fahrenheit compared to the 1951-1980 average (NASA 2023b). GHG emissions from human activities are the most significant driver of observed climate change since the mid-20th century (United Nations Intergovernmental Panel on Climate Change [IPCC] 2013). The IPCC constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. The statistical models show a "high confidence" that temperature increase caused by anthropogenic GHG emissions could be kept to less than two degrees Celsius relative to pre-industrial levels if atmospheric concentrations are stabilized at about 450 parts per million (ppm) carbon dioxide equivalent (CO_2e) by the year 2100 (IPCC 2014).

2.2.2 Types of Greenhouse Gases

The GHGs defined under California's AB 32 include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

Carbon Dioxide. CO_2 is the most important and common anthropogenic GHG. CO_2 is an odorless, colorless GHG. Natural sources include the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungi; evaporation from oceans; and volcanic outgassing. Anthropogenic sources of CO_2 include burning fuels, such as coal, oil, natural gas, and wood. Data from ice cores indicate that CO_2 concentrations remained steady prior to the current period for approximately 10,000 years. The atmospheric CO_2 concentration in 2010 was 390 ppm, 39 percent above the concentration at the start of the Industrial Revolution (approximately 280 ppm in 1750).As of August 2023, the CO_2 concentration exceeded 419 ppm, a 51 percent increase since 1750 (National Oceanic and Atmospheric Administration [NOAA] 2023).

Methane. CH_4 is the main component of natural gas used in homes. A natural source of methane is from the decay of organic matter. Geological deposits known as natural gas fields contain methane, which is extracted for fuel. Other sources are from decay of organic material in landfills, fermentation of manure, and cattle digestion.

Nitrous Oxide. N_2O is produced by both natural and human-related sources. N_2O is emitted during agricultural and industrial activities, as well as during the combustion of fossil fuels and solid waste. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuel, adipic (fatty) acid production, and nitric acid production.

Hydrofluorocarbons. Fluorocarbons are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. Chlorofluorocarbons (CFCs) are nontoxic, nonflammable, insoluble, and chemically nonreactive in the troposphere (the level of air at Earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning

solvents. They destroy stratospheric ozone; therefore, their production was stopped as required by the 1989 Montreal Protocol.

Sulfur Hexafluoride. SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semi-conductor manufacturing, and as a tracer gas for leak detection.

GHGs have long atmospheric lifetimes that range from one year to several thousand years. Long atmospheric lifetimes allow for GHG emissions to disperse around the globe. Because GHG emissions vary widely in the power of their climatic effects, climate scientists have established a unit called global warming potential (GWP). The GWP of a gas is a measure of both potency and lifespan in the atmosphere as compared to CO_2. For example, a gas with a GWP of 10 is 10 times more potent than CO_2 over 100 years. CO_2e is a quantity that enables all GHG emissions to be considered as a group despite their varying GWP. The GWP of each GHG is multiplied by the prevalence of that gas to produce CO_2e.

Historically, GHG emission inventories have been calculated using the GWPs from the IPCC's Second Assessment Report (SAR). In 2007, IPCC updated the GWP values based on the latest science at the time in its Fourth Assessment Report (AR4). The updated GWPs in the IPCC AR4 have begun to be used in recent GHG emissions inventories. In 2013, IPCC again updated the GWP values based on the latest science in its Fifth Assessment Report (AR5) (IPCC 2013). However, United Nations Framework Convention on Climate Change (UNFCCC) reporting guidelines for national inventories require the use of GWP values from the AR4. To comply with international reporting standards under the UNFCCC, official emission estimates for California and the U.S. are reported using AR4 GWP values, and statewide and national GHG emission inventories have not yet updated their GWP values to the AR5 values. Project GHG emissions in this analysis are reported using the AR4 GWP values.

By applying the GWP ratios, project related CO_2e emissions can be tabulated in metric tons per year. Typically, the GWP ratio corresponding to the warming potential of CO_2 over a 100-year period is used as a baseline. The atmospheric lifetime and GWP of selected GHGs are summarized in Table 4, *Global Warming Potentials and Atmospheric Lifetimes*.

Table 4
GLOBAL WARMING POTENTIALS AND ATMOSPHERIC LIFETIMES

Greenhouse Gas	Atmospheric Lifetime (years)	IPCC SAR GWP	IPCC AR4 GWP	IPCC AR5 GWP
Carbon Dioxide (CO_2)	50-200	1	1	1
Methane (CH_4)	12	21	25	28
Nitrous Oxide (N_2O)	114	310	298	265
HFC-134a	14	1,300	1,430	1,300
PFC: Tetraflouromethane (CF_4)	50,000	6,500	7,390	6,630
PFC: Hexafluoroethane (C_2F_6)	10,000	9,200	12,200	11,100
Sulfur Hexafluoride (SF_6)	3,200	23,900	22,800	23,500

Source: IPCC 2007
IPCC = Intergovernmental Panel on Climate Change; GWP = global warming potential; HFC = hydrofluorocarbon; PFC = perfluorocarbon

2.2.3 Federal Greenhouse Gas Regulations

2.2.3.1 Federal Clean Air Act

The U.S. Supreme Court ruled on April 2, 2007, in Massachusetts v. U.S. Environmental Protection Agency that CO_2 is an air pollutant, as defined under the CAA, and that the USEPA has the authority to regulate emissions of GHGs. The USEPA announced that GHGs (including CO_2, CH_4, N_2O, HFC, PFC, and SF_6) threaten the public health and welfare of the American people (USEPA 2023d). This action was a prerequisite to finalizing the USEPA's GHG emissions standards for light-duty vehicles, which were jointly proposed by the USEPA and the United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA).

On June 30, 2022, the U.S. Supreme Court decision published in West Virginia v. U.S. Environmental Protection Agency overturned the USEPA's Clean Power Plan rule which cited Section 111(d) of the CAA for authority to set limits on CO_2 emissions from existing coal- and natural-gas-fired power plants. The June 30, 2022 decision does not overturn the April 2, 2007 decision; however, it may limit the USEPA's authority to develop rules limiting GHG emissions without clear congressional authorization.

2.2.3.2 Light-Duty Vehicle Greenhouse Gas Emissions Standards and Corporate Average Fuel Economy Standards

The USEPA and the NHTSA worked together on developing a national program of regulations to reduce GHG emissions and to improve fuel economy of light-duty vehicles. The USEPA established the first-ever national GHG emissions standards under the CAA, and the NHTSA established Corporate Average Fuel Economy (CAFE) standards under the Energy Policy and Conservation Act. On April 1, 2010, the USEPA and NHTSA announced a joint Final Rulemaking that established standards for 2012 through 2016 model year vehicles. This was followed up on October 15, 2012, when the agencies issued a Final Rulemaking with standards for model years 2017 through 2025. In March 2022, the agencies finalized standards for model years 2024 through 2026 and established an industry-wide fleet average of approximately 49 miles per gallon (mpg) for passenger cars and light trucks in model year 2026.

2.2.4 California Greenhouse Gas Regulations

2.2.4.1 California Code of Regulations, Title 24, Part 6

CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for space or water heating) results in GHG emissions.

The Title 24 standards are updated approximately every three years to allow consideration and possible incorporation of new energy efficiency technologies and methods. The 2022 Title 24 standards became effective on January 1, 2023. The 2022 update to the Building Energy Efficiency Standards focuses on several key areas to improve the energy efficiency of newly constructed buildings and additions and alterations to existing buildings. New for the 2022 Title 24 standards are non-residential on-site photovoltaic (solar panels) electricity generation requirements, including for new warehouse buildings (California Energy Commission [CEC] 2022).

The standards are divided into three basic sets. First, there is a basic set of mandatory requirements that apply to all buildings. Second, there is a set of performance standards—the energy budgets—that vary by climate zone (of which there are 16 in California) and building type; thus, the standards are tailored to local conditions. Finally, the third set constitutes an alternative to the performance standards, which is a set of prescriptive packages that are basically a recipe or a checklist compliance approach.

2.2.4.2 California Green Building Standards Code

The California Green Building Standards Code (CALGreen; CCR Title 24, Part 11) is a code with mandatory requirements for all nonresidential buildings (including industrial buildings) and residential buildings for which no other state agency has authority to adopt green building standards. The 2019 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings became effective on January 1, 2020, and the 2022 Standards will become effective on January 1, 2023 (California Building Standards Commission [CBSC] 2022).

The development of CALGreen is intended to (1) cause a reduction in GHG emissions from buildings; (2) promote environmentally responsible, cost-effective, healthier places to live and work; (3) reduce energy and water consumption; and (4) respond to the directives by the Governor. In short, the code is established to reduce construction waste; make buildings more efficient in the use of materials and energy; and reduce environmental impact during and after construction.

CALGreen contains requirements for storm water control during construction; construction waste reduction; indoor water use reduction; material selection; natural resource conservation; site irrigation conservation; and more. The code provides for design options allowing the designer to determine how best to achieve compliance for a given site or building condition. The code also requires building commissioning, which is a process for the verification that all building systems, like heating and cooling equipment and lighting systems, are functioning at their maximum efficiency. CALGreen also contains two levels of voluntary measures (Tier 1 and Tier 2) which go beyond minimum State code requirements. Categories of Tier 1 and Tier 2 measures include: Electric vehicle (EV) designated parking; EV charging infrastructure; cool roofs; efficient outdoor lighting; dock door seals; potable water use reductions; recycled building material content; and resilient flooring.

2.2.4.3 Executive Order S-3-05

On June 1, 2005, Executive Order (EO) S-3-05 proclaimed that California is vulnerable to climate change impacts. It declared that increased temperatures could reduce snowpack in the Sierra Nevada, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To avoid or reduce climate change impacts, EO S-3-05 calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

2.2.4.4 Assembly Bill 32 – Global Warming Solution Act of 2006

The California Global Warming Solutions Act of 2006, widely known as AB 32, requires that CARB develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB is directed by AB 32 to set a GHG emission limit, based on 1990 levels, to be achieved by 2020. The bill requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG emission reductions.

2.2.4.5 Executive Order B-30-15

On April 29, 2015, EO B-30-15 established a California GHG emission reduction target of 40 percent below 1990 levels by 2030. The EO aligns California's GHG emission reduction targets with those of leading international governments, including the 28 nation European Union. California is on track to meet or exceed the target of reducing GHGs emissions to 1990 levels by 2020, as established in AB 32. California's new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the goal established by EO S-3-05 of reducing emissions 80 percent under 1990 levels by 2050.

2.2.4.6 Senate Bill 32

Senate Bill (SB) 32, Amendments to the California Global Warming Solutions Action of 2006, extends California's GHG emission reduction programs beyond 2020. SB 32 amended the Health and Safety Code to include Section 38566, which contains language to authorize CARB to achieve a statewide GHG emission reduction of at least 40 percent below 1990 levels by no later than December 31, 2030. SB 32 codified the targets established by EO B-30-15 for 2030, which set the next interim step in the State's continuing efforts to pursue the long-term target expressed in EO B-30-15 of 80 percent below 1990 emissions levels by 2050.

2.2.4.7 Assembly Bill 197

A condition of approval for SB 32 was the passage of AB 197. AB 197 requires that CARB consider the social costs of GHG emissions and prioritize direct reductions in GHG emissions at mobile sources and large stationary sources. AB 197 also gives the California legislature more oversight over CARB through the addition of two legislatively appointed members to the CARB Board and the establishment a legislative committee to make recommendations about CARB programs to the legislature.

2.2.4.8 Assembly Bill 1493 – Vehicular Emissions of Greenhouse Gases

AB 1493 (Pavley) requires that CARB develop and adopt regulations that achieve "the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty truck and other vehicles determined by CARB to be vehicles whose primary use is noncommercial personal transportation in the State." On September 24, 2009, CARB adopted amendments to the Pavley regulations that intend to reduce GHG emissions in new passenger vehicles from 2009 through 2016. The amendments bind California's enforcement of AB 1493 (starting in 2009), while providing vehicle manufacturers with new compliance flexibility. In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single packet of standards called Advanced Clean Cars (CARB 2023d).

2.2.4.9 Assembly Bill 341

The state legislature enacted AB 341 (California Public Resource Code Section 42649.2), increasing the diversion target to 75 percent statewide. AB 341 requires all businesses and public entities that generate 4 cubic yards or more of waste per week to have a recycling program in place. The final regulation was approved by the Office of Administrative Law on May 7, 2012 and went into effect on July 1, 2012.

2.2.4.10 Executive Order S-01-07

This EO, signed by Governor Schwarzenegger on January 18, 2007, directs that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by the year 2020. It orders that a Low Carbon Fuel Standard (LCFS) for transportation fuels be established for California and directs CARB to determine whether a LCFS can be adopted as a discrete early action measure pursuant to AB 32. CARB approved the LCFS as a discrete early action item with a regulation adopted and implemented in April 2010. Although challenged in 2011, the Ninth Circuit reversed the District Court's opinion and rejected arguments that implementing LCFS violates the interstate commerce clause in September 2013. CARB is therefore continuing to implement the LCFS statewide.

2.2.4.11 Senate Bill 350

Approved by Governor Brown on October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard eligible resources, including solar, wind, biomass, and geothermal. In addition, large utilities are required to develop and submit Integrated Resource Plans to detail how each entity will meet their customers resource needs, reduce GHG emissions, and increase the use of clean energy.

2.2.4.12 Senate Bill 375

SB 375, the Sustainable Communities and Climate Protection Act of 2008, supports the State's climate action goals to reduce GHG emissions through coordinated transportation and land use planning with the goal of more sustainable communities.

Under the Sustainable Communities Act, CARB sets regional targets for GHG emissions reductions from passenger vehicle use. In 2010, CARB established these targets for 2020 and 2035 for each region covered by one of the State's metropolitan planning organizations (MPOs). CARB periodically reviews and updates the targets, as needed.

Each of California's MPOs must prepare a Sustainable Communities Strategy (SCS) as an integral part of its regional transportation plan (RTP). The SCS contains land use, housing, and transportation strategies that, if implemented, would allow the region to meet its GHG emission reduction targets. Once adopted by the MPO, the RTP/SCS guides the transportation policies and investments for the region. CARB must review the adopted SCS to confirm and accept the MPO's determination that the SCS, if implemented, would meet the regional GHG emission targets. If the combination of measures in the SCS would not meet the regional targets, the MPO must prepare a separate alternative planning strategy (APS) to meet the targets. The APS is not a part of the RTP. Qualified projects consistent with an approved SCS or Alternative Planning Strategy categorized as "transit priority projects" would receive incentives to streamline CEQA processing.

2.2.4.13 Senate Bill 100

Approved by Governor Brown on September 10, 2018, SB 100 extends the renewable electricity procurement goals and requirements of SB 350. SB 100 requires that all retail sale of electricity to California end-use customers be procured from 100 percent eligible renewable energy resources and zero-carbon resources by the end of 2045.

2.2.4.14 Executive Order N-79-20

EO N-79-20, signed by Governor Newsom on September 23, 2020, establishes three goals for implementation of zero emissions vehicles in California: first, 100 percent of in-state sales of new passenger cars and trucks will be zero-emissions by 2035; second, 100 percent of medium- and heavy-duty vehicles in the state will be zero-emissions vehicles by 2045 for all operations where feasible, and by 2035 for drayage trucks; and third, 100 percent of off-road vehicles and equipment will be zero emissions by 2035 where feasible.

2.2.4.15 Assembly Bill 1279

Approved by Governor Newsom on September 16, 2022, AB 1279, the California Climate Crisis Act, declares the policy of the State to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter, and to ensure that by 2045, statewide anthropogenic GHG emissions are reduced to at least 85 percent below the 1990 levels. AB 1279 anticipates achieving these policies through direct GHG emissions reductions, removal of CO_2 from the atmosphere (carbon capture), and almost complete transition away from fossil fuels.

2.2.4.16 Senate Bill 905

Approved by Governor Newsom on September 16, 2022, SB 905, Carbon sequestration: Carbon Capture, Removal, Utilization, and Storage Program, requires CARB to establish a Carbon Capture, Removal, Utilization, and Storage Program to evaluate the efficacy, safety, and viability of carbon capture, utilization, or storage technologies and CO_2 removal technologies and facilitate the capture and sequestration of CO_2 from those technologies, where appropriate. SB 905 is an integral part of achieving the state policies mandated in AB 1279.

2.2.4.17 California Air Resources Board: Scoping Plan

The Scoping Plan is a strategy CARB develops and updates at least one every five years, as required by AB 32. It lays out the transformations needed across California society and economy to reduce emissions and reach climate targets. The current 2022 Scoping Plan is the third update to the original plan that was adopted in 2008. The initial 2008 Scoping Plan laid out a path to achieve the AB 32 mandate of returning to 1990 levels of GHG emissions by 2020, a reduction of approximately 15 percent below business as usual. The 2008 Scoping Plan included a mix of incentives, regulations, and carbon pricing, laying out the portfolio approach to addressing climate change and clearly making the case for using multiple tools to meet California's GHG emission targets. The 2013 Scoping Plan assessed progress toward achieving the 2020 mandate and made the case for addressing short-lived climate pollutants (SLCPs). The 2017 Scoping Plan also assessed the progress toward achieving the 2020 limit and provided a technologically feasible and cost-effective path to achieving the SB 32 mandate of reducing GHGs by at least 40 percent below 1990 levels by 2030.

On December 15, 2022, CARB approved the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan). The 2022 Scoping Plan lays out a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels no later than 2045, as directed by Assembly Bill 1279. The actions and outcomes in the plan will achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels; further reductions in SLCPs; support for sustainable development; increased action on natural and working lands to reduce emissions and sequester carbon; and the capture and storage of carbon (CARB 2022).

2.2.5 Regional GHG Emission Policies and Plans

2.2.5.1 Southern California Association of Governments

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties, and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG coordinates with various air quality and transportation stakeholders in Southern California to ensure compliance with the federal and state air quality requirements. Pursuant to California Health and Safety Code Section 40460, SCAG has the responsibility of preparing and approving the portions of the AQMP relating to the regional demographic projections and integrated regional land use, housing, employment, and transportation programs, measures, and strategies. SCAG is required by law to ensure that transportation activities "conform" to, and are supportive of, the goals of regional and state air quality plans to attain the NAAQS. The RTP/SCS includes transportation programs, measures, and strategies generally designed to reduce vehicle miles traveled (VMT), which are contained in the AQMP. The SCAQMD combines its portion of the AQMP with those prepared by SCAG. The RTP/SCS and Transportation Control Measures, included as Appendix IV-C of the 2016 AQMP for the Air Basin, are based on SCAG's 2016-2040 RTP/SCS. On September 3, 2020, SCAG's Regional Council adopted the 2020-2045 RTP/SCS. On October 30, 2020, CARB accepted SCAG's determination that the SCS meets the applicable state GHG emissions targets.

3.0 EXISTING CONDITIONS

The project site is currently completely developed with existing industrial uses comprised of four primary structures, associated parking areas, storage yards, and canopy areas. The existing structures were built between about 1952 and 1973. The project site is surrounded by the following land uses:

- **North**: Hall Road and Union Pacific Railroad (UPRR) rail corridor, beyond which are commercial and industrial uses.
- **South:** Stewart and Gray Road, beyond which are industrial and public utility uses; multi-family residential uses are located further to the southwest.
- **East:** Adjacent commercial and industrial uses, Woodruff Avenue, additional commercial and industrial uses further east; multi-family residential uses are located further to the northeast beyond the UPRR rail corridor.
- **West:** Industrial uses, beyond which are multi-family residential uses.

As discussed in the DEIR Section 4.3, due to the historic use of the project site for manufacturing activities, and associated use of hazardous materials in various manufacturing processes, the soil and groundwater beneath the site have been exposed to various constituents that are now the subject of a voluntary cleanup effort by the property owner. More specifically, extensive sampling conducted at the project site indicated the presence of various constituents in each of these media, including VOCs in soil vapor; VOCs, organochlorine pesticides (OCPs), total petroleum hydrocarbons (TPH), and metals in soil; and VOCs in groundwater. In order to address these conditions, the property owner is currently in the process of remediating the existing contamination in cooperation with the Los Angeles Regional Water Quality Control Board (RWQCB) through operation of an on-site soil vapor extraction (SVE) system. The SVE system is intended to remove those constituents that exceed allowable concentration limits to

allow for future redevelopment of the property. Monitoring of soil vapor and groundwater conditions on-site is ongoing with oversight by the RWQCB, and quarterly monitoring reports are submitted to the RWQCB for review to track the progress of the remediation effort. In addition, testing of materials in the existing buildings has shown the presence of ACMs and LBP.

3.1 CLIMATE AND METEOROLOGY

The project site is in the SCAB, which consists of all or part of four counties: Los Angeles, San Bernardino, Riverside, and Orange. The distinctive climate of the SCAB is determined by its terrain and geographic location. The SCAB is a coastal plain with connecting broad valleys and low hills. It is bound by the Pacific Ocean to the southwest and high mountains around the rest of its perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light, average wind speeds.

The usually mild climatological pattern is interrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds. Winds in the project area are usually driven by the dominant land/ sea breeze circulation system. Regional wind patterns are dominated by daytime onshore sea breezes. At night, the wind generally slows and reverses direction traveling toward the sea. Local canyons can also alter wind direction, with wind tending to flow parallel to the canyons. The vertical dispersion of air pollutants in the SCAB is hampered by the presence of persistent temperature inversions. High pressure systems, such as the semi-permanent high-pressure zone in which the SCAB is located, are characterized by an upper layer of dry air that warms as it descends, restricting the mobility of cooler marine-influenced air near the ground surface, and resulting in the formation of subsidence inversions. Such inversions restrict the vertical dispersion of air pollutants released into the marine layer and, together with strong sunlight, can produce worst-case conditions for the formation of photochemical smog. The basin-wide occurrence of inversions at 3,500 feet above mean sea level or less averages 191 days per year (SCAQMD 1993).

The predominant wind direction in the vicinity of the project site is from the southwest and the average wind speed is approximately 4.7 mph, as measured at the Fullerton Municipal Airport, approximately 9 miles southeast of the project site (Iowa Environmental Mesonet [IEM] 2022). The annual average maximum temperature in the project area, as measured at the Montebello climatic station, approximately 6 miles north of the project site, is approximately 79.1 degrees Fahrenheit (°F), and the annual average minimum temperature is approximately 55.7°F. Total precipitation in the project area averages approximately 14.8 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer (Western Regional Climate Center [WRCC] 2022).

3.2 SENSITIVE RECEPTORS

CARB and the Office of Environmental Health Hazard Assessment (OEHHA) have identified the following groups of individuals as the most likely to be affected by air pollution: adults over 65, children under 14, infants (including in utero in the third trimester of pregnancy), and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis (CARB 2005; OEHHA 2015). Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved and are referred to as sensitive receptor locations. Examples of these sensitive receptor locations are residences, schools, hospitals, and daycare centers. Following OEHHA guidance for health risk assessments, the health impacts are analyzed for individual residents assumed to be standing in their primary outdoor spaces closest to the source of TACs from 17 to 21 hours per day

(depending on the age group) every day for 30 years and for individual off-site workers assumed to be working with moderate intensity outside of a commercial or industrial building for 8 hours per day, 260 days per year. Because of these and other assumptions, health risk assessment are, by design, conservative (health protective).

The closest existing sensitive receptor location to the project site is a single-family home located approximately 240 feet east of the project site, across Hall Road, Woodruff Avenue, and the UPRR corridor. In addition, multi-family residences are located approximately 250 feet southwest of the project site, across Stewart and Gray Road; single-family residences are located approximately 300 feet west of the project site beyond a row of industrial businesses; and multi-family residences are located approximately 320 feet east of the project site, across Woodruff Avenue and the UPRR corridor. The closest school to the project site is the A L Gauldin Elementary School, approximately 2,600 feet (0.5 mile) south of the project site.

3.3 EXISTING AIR QUALITY

3.3.1 Criteria Pollutants

3.3.1.1 Attainment Designations

Attainment designations are discussed in Section 2.1 and Table 2. The SCAB is a federal and state nonattainment area for 8-hour ozone and $PM_{2.5}$. The SCAB is also a state nonattainment area for 1-hour ozone and PM_{10}.

3.3.1.2 Monitored Air Quality

The SCAQMD maintains monitoring stations to measure ambient concentrations of pollutants in the SCAB. The nearest monitoring station, approximately 5.2 miles southwest project site, is the Compton-700 North Bulls Road monitoring station. The closest monitoring station with data for PM_{10} is the South Long Beach monitoring station, approximately 9.9 miles southwest of the project site. Table 5, *Air Quality Monitoring Data*, presents a summary of the ambient pollutant concentrations monitored at the two air quality monitoring stations during the most recent three years (2020 through 2022) for which the SCAQMD has reported data.

Table 5
AIR QUALITY MONITORING DATA

Pollutant Standard	2020	2021	2022
Ozone (O_3) – Compton Station			
Maximum concentration 1-hour period (ppm)	0.152	0.085	0.111
Maximum concentration 8-hour period (ppm)	0.115	0.76	0.085
Days above 1-hour state standard (>0.09 ppm)	3	0	1
Days above 8-hour state/federal standard (>0.070 ppm)	4	1	1
Coarse Particulate Matter (PM_{10}) – South Long Beach Station			
Maximum 24-hour concentration (µg/m^3)	68.7	49.7	50.3
Measured Days above 24-hr state standard (>50 µg/m^3)	3	0	0
Measured Days above 24-hr federal standard (>150 µg/m^3)	0	0	0
Annual average (µg/m^3)	*	23.6	*
Exceed state annual standard (20 µg/m^3)	*	Yes	*
Fine Particulate Matter ($PM_{2.5}$) – Compton Station			
Maximum 24-hour concentration (µg/m^3)	67.5	102.1	52.8
Measured Days above 24-hour federal standard (>35 µg/m^3)	19	12	6
Annual average (µg/m^3)	14.7	14.4	14.0
Exceed state and federal annual standard (12 µg/m^3)	Yes	Yes	Yes
Nitrogen Dioxide (NO_2) – Compton Station			
Maximum 1-hour concentration (ppm)	0.072	0.068	0.065
Days above state 1-hour standard (0.18 ppm)	0	0	0
Days above federal 1-hour standard (0.100 ppm)	0	0	0
Annual average (ppm)	0.014	0.014	0.014
Exceed annual federal standard (0.053 ppm)	No	No	No
Exceed annual state standard (0.030 ppm)	No	No	No

Source: CARB 2023e
ppb = parts per billion; ppm = parts per million; µg/m^3 = micrograms per cubic meter, * = insufficient data available.

As shown in Table 5, the 1- and 8-hour ozone, PM_{10}, and $PM_{2.5}$ standards were exceeded numerous times in each of the sample years. Data for NO_2 showed no exceedances.

3.3.1.3 Existing Land Use Criteria Pollutant Emissions

Emissions resulting from operation of the industrial businesses on the project site were analyzed using the California Emissions Estimator Model (CalEEMod), as described in Section 4.1, below. The calculated existing land use operational criteria pollutant and precursor emissions are shown in Table 6, *Existing Land Use Maximum Daily Emissions*.

Table 6
EXISTING LAND USE MAXIMUM DAILY EMISSIONS

Category	Pollutant Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area	12.9	<0.1	18.9	<0.1	<0.1	<0.1
Energy	0.2	3.0	2.5	<0.1	0.2	0.2
Mobile	5.1	31.6	52.7	0.3	15.9	4.4
Total Existing Use Daily Emissions[1, 2]	**18.2**	**34.5**	**74.0**	**0.3**	**16.1**	**4.6**

Source: CalEEMod (output data is provided in Appendix A)

[1] Totals may not sum due to rounding.

[2] Maximum daily emissions of VOC, CO, SO_X, PM_{10}, and $PM_{2.5}$ occur during summer, maximum daily emissions of NO_X occur during winter.

VOC = volatile organic compounds; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides;
PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

3.3.2 Community Health Risks

The SCAQMD has conducted studies on carcinogenic risk from exposure to air toxics in the SCAB. The most recent is the Multiple Air Toxics Exposure Study V (MATES V). According to the MATES Data Visualization interactive tool, the area around the project site has a cumulative cancer risk from toxic air contaminants of 569 in 1 million. 68 percent of the existing cumulative cancer risk from toxic air contaminants is from DPM (SCAQMD 2023b).

3.3.3 Greenhouse Gases

In 2020, total GHG emissions worldwide were estimated at 50,510 million metric tons (MMT) of CO_2e emissions (Climate Watch 2023). By country, the U.S. contributed the second largest portion (10.5 percent) of global GHG emissions, behind China with 24.4 percent of global emissions. The total U.S. GHG emissions was 5,290 MMT CO_2e in 2020 (Climate Watch 2023). On a national level, approximately 90 percent of GHG emissions were associated with energy, including transportation energy (Climate Watch 2023).

CARB performed statewide inventories for the years 1990 to 2020, as shown in Table 7, *California Greenhouse Gas Emissions by Sector*. The inventory is divided into five broad sectors of economic activity: agriculture, commercial and residential, electricity generation, industrial, and transportation. Emissions are quantified in MMT CO_2e.

Table 7
CALIFORNIA GREENHOUSE GAS EMISSIONS BY SECTOR

Sector	Emissions (MMT CO_2e)			
	1990	2000	2010	2020
Agriculture and Forestry	18.9 (4%)	30.8 (8%)	33.6 (8%)	31.6 (8%)
Commercial and Residential	44.1 (10%)	44.2 (10%)	46.0 (10%)	38.7 (11%)
Electricity Generation	110.5 (26%)	104.7 (20%)	90.3 (20%)	59.5 (16%)
Industrial	105.3 (24%)	93.0 (20%)	87.8 (20%)	73.3 (20%)
Transportation	150.6 (35%)	175.7 (37%)	162.9 (37%)	135.8 (37%)
Unspecified Remaining	1.3 (<1%)	13.4 (5%)	21.6 (5%)	30.2 (8%)
Total	**430.7**	**461.8**	**442.2**	**369.1**

Source: CARB 2007 and CARB 2023f
MMT = million metric tons; CO_2e = carbon dioxide equivalent

As shown in Table 7, statewide GHG source emissions totaled 431 MMT CO_2e in 1990, 462 MMT CO_2e in 2000, 442 MMT CO_2e in 2010, and 369 MMT CO_2e in 2020. Transportation-related emissions consistently contribute the most GHG emissions, followed by electricity generation and industrial emissions (CARB 2007 and CARB 2023f).

3.3.3.1 Existing Land Use GHG Emissions

Emissions resulting from operation of the industrial businesses on the project site were analyzed using CalEEMod, as described in Section 4.1, below. The calculated existing land use operational criteria pollutant and precursor emissions are shown in Table 8, *Existing Land Use Annual GHG Emissions*.

Table 8
EXISTING LAND USE ANNUAL GHG EMISSIONS

Emission Sources	2024 Emissions (MT CO_2e)
Area	8.8
Energy	1,803
Vehicular (Mobile)	5,552
Solid Waste	166
Water	242
Refrigerants	18.0
Existing Land Use Total[1]	**7,790**

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
GHG = greenhouse gas; MT = metric tons; CO_2e = carbon dioxide equivalent

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA

4.1 METHODOLOGY

Criteria pollutant and GHG emissions for both the proposed project and the existing industrial land use were calculated using CalEEMod, version 2022.1.1.18 CalEEMod is a computer model used to estimate air emissions resulting from land development projects throughout the state of California. CalEEMod

was developed by CAPCOA in collaboration with the California air quality management and pollution control districts, primarily the SCAQMD. The calculation methodology, source of emission factors used, and default data is described in the CalEEMod User's Guide, and Appendices C, D, and G (CAPCOA 2022).

In brief, CalEEMod is a computer model that estimates criteria air pollutant and greenhouse gas emissions from mobile (i.e., vehicular) sources, area sources (fireplaces, woodstoves, and landscape maintenance equipment), energy use (electricity and natural gas used in space heating, ventilation, and cooling; lighting; and plug-in appliances), water use and wastewater generation, solid waste disposal, and refrigerants. Emissions are estimated based on land use information input to the model by the user.

In the first module, the user defines the specific land uses that will occur at the project site. The user also selects the appropriate land use setting (urban or rural), operational year, location, climate zone, and utility provider. The input land uses, size features, and population are used throughout CalEEMod in determining default parameters and calculations in each of the subsequent modules. The input land use information consists of land use subtypes (such as the residential subtypes of single-family residential and multi-family medium-rise residential) and their unit or square footage quantities.

Subsequent modules include construction (including off-road vehicle emissions), mobile (on-road vehicle emissions), area sources (architectural coatings [painting], consumer products [cleansers, aerosols, solvents]), water and wastewater, solid waste, and refrigerants. Each module comprises multiple components including an associated mitigation module to account for further reductions in the reported baseline calculations. Other inputs include trip generation rates, trip lengths, vehicle fleet mix (percentage autos, trucks, etc.), trip distribution (percent work to home, etc.), duration of construction phases, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters.

In various places the user can input additional information and/or override the default assumptions to account for project- or location-specific parameters. For this assessment, the default parameters were not changed unless otherwise noted. The CalEEMod output files are included in Appendix A to this report.

4.1.1 Construction Emissions

CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, diesel-engine classifications, and other selected emissions reduction measures. In compliance with SCAQMD Rule 403, fugitive dust emissions calculations assume application of water on exposed surface a minimum of two times per day and a speed limit of 25 mph enforced for vehicles traveling on unpaved surfaces.

CalEEMod estimates construction emissions for each year of construction activity based on the annual construction equipment profile and other factors determined as needed to complete all phases of construction by the target completion year. As such, each year of construction activity has varying quantities of GHG emissions. Per SCAQMD guidance, total construction GHG emissions resulting from the project are amortized over 30 years (the anticipated period before the project building would require replacement or significant renovation) and added to operational GHG emissions.

4.1.1.1 Construction Activities

Construction emissions were estimated based on the timeline provided by the project applicant, which assumes construction would commence with demolition/site preparation in February 2024. Off-site improvements, paving, and architectural coatings (e.g., painting) occur concurrently with building construction. The quantity, duration, and intensity of construction activity influence the amount of construction emissions and related pollutant concentrations that occur at any one time. As such, the emission forecasts provided herein reflect a specific set of conservative assumptions based on the expected construction scenario wherein a relatively large amount of construction activity is occurring in a relatively intensive manner. Because of this conservative assumption, actual emissions could be less than those forecasted. If construction is delayed or occurs over a longer time period, emissions could be reduced because of: (1) a more modern and cleaner-burning construction equipment fleet mix than assumed in CalEEMod; and/or (2) a less intensive buildout schedule (i.e., fewer daily emissions occurring over a longer time interval).

Construction is assumed to occur five days per week with equipment operating up to eight hours per day. The construction schedule assumed in the modeling is shown in Table 9, *Anticipated Construction Schedule*.

Table 9
ANTICIPATED CONSTRUCTION SCHEDULE

Construction Activity	Construction Period Start	Construction Period End	Number of Working Days
Demolition/Site Preparation	2/9/2024	5/23/2024	75
Grading/ Underground Utilities	5/24/2024	7/18/2024	40
Off-Site Underground Utilities	6/3/2024	10/18/2024	100
Building Construction	7/19/2024	3/31/2025	182
Off-Site Driveways and Sidewalks	10//24/2024	12/12/2024	37
Architectural Coatings	1/28/2025	3/31/2025	45
Paving	2/7/2025	3/6/2025	20

Source: CalEEMod (complete data is provided in Appendix A)

4.1.1.2 Construction Off-Road Equipment

Construction would require the use of heavy off-road equipment. Construction equipment estimates for other activities estimates are based on default values in CalEEMod, with additional equipment added for excavation for underground utilities (based on assumptions used for similar projects). Table 10, *Construction Equipment Assumptions*, presents a summary of the assumed equipment that would be involved in each stage of construction.

Table 10
CONSTRUCTION EQUIPMENT ASSUMPTIONS

Equipment	Horsepower	Number	Hours/Day
Demolition/Site Preparation			
Concrete/Industrial Saws	33	1	8
Excavators	36	3	8
Rubber Tired Dozers	367	2	8
Water Trucks	376	1	4
Grading/Underground Utilities			
Excavators	36	2	8
Graders	148	1	8
Rubber Tired Dozers	367	1	8
Scrapers	423	2	8
Tractors/Loaders/Backhoes	84	2	8
Water Trucks	376	1	4
Off-Site Underground Utilities			
Excavators	36	2	8
Tractors/Loaders/Backhoes	84	2	8
Off-Site Driveways and Sidewalks			
Excavators	36	2	8
Rubber Tired Dozers	367	1	8
Tractors/Loaders/Backhoes	84	2	8
Building Construction			
Cranes	367	1	7
Forklifts	82	3	8
Generator Sets	14	1	8
Tractors/Loaders/Backhoes	84	3	7
Welders	46	1	8
Water Trucks	376	1	4
Architectural Coating			
Air Compressors	37	1	6
Paving			
Pavers	81	2	8
Paving Equipment	89	2	8
Rollers	39	2	8

Source: CalEEMod (complete data is provided in Appendix A)

4.1.1.3 Construction On-Road Trips

Worker commute trips and vendor delivery trips were modeled based on CalEEMod defaults. Worker trips are anticipated to vary between 10 and 228 trips per day, depending on construction activity. Vendor delivery trips would be 90 per day during building construction. Based on model defaults and an estimated 433,000 SF of exiting building area, approximately 2,490 loads (4,980 trips) of debris would be exported during demolition. Based on estimates from the project off-site improvement plan, approximately 31 loads (62 trips) of soil and debris would be exported and approximately 31 loads (62 trips) of aggregate and concrete would be imported during oof-site street improvements. Based on the model default of 16 CY per load, exporting 75,000 CY of soil during grading would require 4,688 loads (9,376 trips). Based on the paved areas shown on the site plan, approximately 1,053 loads (2,106 trips) of aggregate/asphalt would be imported to the project site during paving. The CalEEMod

default worker, vendor, and haul trip distances were used in the model. Due to the size of the project site, 1,000 feet of every haul truck trip (1 percent of each trip) was assumed to be on an unpaved on-site access road.

4.1.2 Operation Emissions

Operational impacts were estimated using CalEEMod. Operational sources of emissions include area, energy, transportation, water use, solid waste, and refrigerants. Operational emissions are calculated for the earliest anticipated full year of operation—2026.

4.1.2.1 Area Source Emissions

Area sources include emissions from landscaping equipment, the use of consumer products, the reapplication of architectural coatings for maintenance, and hearths. Emissions associated with area sources were estimated using the CalEEMod default values and SCAQMD Rule 1113 architectural coatings VOC of 50 g/L for building envelope coatings and interior flat coatings and 100 g/L for pavement marking.

4.1.2.2 Energy Emissions

Development within the project would use electricity for lighting, heating, and cooling. Direct emissions from the burning of natural gas may result from furnaces, hot water heaters, and appliances. Electricity generation typically entails the combustion of fossil fuels, including natural gas and coal, which is then transmitted to end users. A building's electricity use is thus associated with the off-site or indirect emission of GHGs at the source of electricity generation (power plant). The 2022 Title 24 standards include the requirement for on-site solar electricity generation which would be applicable to the project. The minimum amount of solar electricity generated to meet the 2022 Tile 24 standards is based on climate zone and the building's conditioned floor area (the floor space that would include heating or air conditioning). Because the amount of project warehouse space that would be conditioned was uncertain at the time of this analysis, to be conservative, no energy use reductions resulting from project solar panels were included in the modeling. The project's and the existing land use's energy use was modeled using CalEEMod defaults.

The project would include EV charging infrastructure in accordance with CalGreen requirements. Including EV infrastructure in a development project is generally accepted as a GHG emission reduction measure. Adding EV charging infrastructure to a development project would not result in increased GHG emissions in the region. Without the project including EV infrastructure, EV owners would either charge their vehicles somewhere else, resulting in similar electricity use, or they would choose to use conventional vehicles, resulting in higher GHG emissions. Therefore, project electricity use for EV charging is not included in this analysis.

4.1.2.3 Vehicular (Mobile) Sources

Operational emissions from mobile source emissions are associated with project-related vehicle trip generation and trip length. Based on the trip generation rate from the Transportation Impact Study (TIS) prepared for the project, the project fulfillment center warehouse (including the office and mezzanine space) would generate 3,277 average daily trips (ADT; 3,179 passenger car trips and 98 truck trips) and the project cold storage warehouse space would generate 57 ADT (Linscott Law & Greenspan [LLG] 2023). Passenger car trip purposes and distances were modeled using CalEEMod defaults. The TIS

reported that project high-cube fulfillment center truck ADT would consist of 16 two-axle trucks, 20 three-axle trucks, and 62 four or more axle trucks. Two-axle trucks were assumed to be light-heavy duty (LHDT2; 10,000 to 14,000 pounds gross vehicle weight [GVW]). Three-axle trucks were assumed to be medium-heavy duty (MHDT; 14,000 to 33,000 GVW). Four or more axle trucks were assumed to be heavy-heavy duty (HHDT; greater than 33,000 GVW). The TIS did not analyze truck percentages for the cold storage warehouse trips. The cold storage warehouse truck trips were determined from data in the study High-Cube Warehouse Vehicle Trip Generation Analysis, prepared for SCAQMD, which reports that the cold-storage warehouse average vehicle mix is approximately 39.5 percent trucks (Institute of Transport Engineers 2016). The fleet mix for project truck trips was set in CalEEMod to match the TIS and SCAQMD analysis truck mix. All truck trips were assumed to be primary (no diverted or pass-by trip reductions). Truck trip distances were modeled using the SCAQMD recommended distance of 40 miles for warehouse projects, assuming that only the local portion of each trip (local delivery or highway access) would result in new VMT to the region (SCAQMD 2021b).

Trip generation for the existing industrial land use was modeled using the trip generation presented in the TIS which concluded that the existing land use generates 2,109 ADT. The existing land use trips consist of 1,291 passenger car trips and 818 truck trips (90 2-axle truck trips, 294 3-axle truck trips, and 434 4- or more axle truck trips; LLG 2023). The CalEEMod default trip distances were used for the exiting land use trips.

4.1.2.4 Solid Waste Sources

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. CalEEMod determines the GHG emissions associated with disposal of solid waste into landfills. Portions of these emissions are biogenic. CalEEMod methods for quantifying GHG emissions from solid waste are based on the IPCC method using the degradable organic content of waste.

4.1.2.5 Water Sources

Water-related GHG emissions are from the conveyance and treatment of water. CalEEMod uses the CEC's 2006 Refining Estimates of Water-Related Energy Use in California to establish default water-related emission factors.

4.1.2.6 Refrigerants

Refrigerants are substances used in equipment for air conditioning and refrigeration. Most of the refrigerants used today are HFCs or blends of gases containing HFCs. CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime.

4.1.3 Localized Significance Threshold Methodology

As part of the SCAQMD's environmental justice program, more attention has been focused on localized air quality effects. Also, while regional impact analysis is based on attaining or maintaining regional emissions standards, localized impact analysis compares the concentration of a pollutant at a receptor site to a health-based standard.

SCAQMD has developed a localized significance threshold (LST) methodology and mass rate look-up tables by source receptor area (SRA) that can be used by public agencies to determine whether a project

may generate significant adverse localized air quality impacts. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard; they are developed based on the ambient concentrations of that pollutant for each SRA (SCAQMD 2009). The LST methodology translates the concentration standards into emissions thresholds that are a function of project site area, source to receptor distance, and the location within the SCAB. The LST methodology is recommended to be limited to projects of 5 acres or less and to avoid the need for complex dispersion modeling. For projects that exceed 5 acres, such as the proposed project, the 5-acre LST look-up values can be used as a screening tool to determine which pollutants require detailed analysis. This approach is conservative as it assumes that all on-site emissions would occur within a 5-acre area and over-predicts potential localized impacts (i.e., more pollutant emissions occurring within a smaller area and within closer proximity to potential sensitive receptors). If a project exceeds the LST look up values, then the SCAQMD recommends that project-specific localized air quality modeling be performed.

The proposed project is within SRA 5, Southeast Los Angeles County. The closest sensitive receptor is a single-family residence 240 feet east of the project site. Therefore, the LSTs in SRA 5 for project sites of 5 acres with receptors located between 50 and 100 meters (164 to 328 feet) are used in this analysis.

4.1.4 Health Risk Assessment

A health risk assessment (HRA) was prepared to analyze potential health risks to nearby sensitive receptors and off-site workers from the emission of DPM during construction and operation of the proposed warehouse in accordance with applicable portions of the OEHHA Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2015), and applicable portions of the SCAQMD's Modeling Guidance for AERMOD (SCAQMD 2023b). HRA modeling inputs and outputs are included in Appendix B, HRA Modeling, to this report.

4.1.4.1 TAC Emissions

Available air quality models and complications of emissions factors do not include DPM emissions. However, because nearly all DPM consists of particles 10 microns in diameter or less, DPM emissions are approximately equal to PM_{10} exhaust emissions from diesel engines. All DPM emissions calculations used in the project HRA were based on PM_{10} exhaust emissions.

Calculations of off-road construction DPM were based on CalEEMod reported PM_{10} exhaust emissions reported for each construction activity. Emissions of DPM from trucks traveling to and from the project warehouse were calculated using emission factors from CARB's EMFAC2021 version 1.0.2 online database (CARB 2023g) and the haul tuck trips described in Section 4.1.1, above. All haul trucks were assumed to be heavy-heavy duty (HHDT; greater than 33,000 GVR). Trucks on public road surrounding the project site were assumed to be traveling at the posted speed limit (35 mph for Hall Road and 40 mph for Stewart and Gray Road). In addition, each haul truck entering the project site was assumed to idle for the maximum allowable 5 minutes (per California Code of Regulations [CCR] Title 13, Section 2485). Haul truck idling emissions were assumed to be approximately equivalent to truck emissions at 5 mph.

Calculations of operational DPM emissions were based on the project truck trip generation estimate and the project truck trip distribution described in the project TIS (LLG 2023). All trucks were assumed be traveling at the average posted speed limit for each modeled roadway segment. Trucks entering and

exiting the project driveways and circulating within the project site were assumed to be traveling at 15 mph. All trucks were assumed to idle at the loading docks for the maximum allowable 5 minutes after arriving and again before leaving the project site, plus two additional minutes corresponding to low-speed maneuvering in the loading dock areas. Truck idling emissions were assumed to be approximately equivalent to truck emissions at 5 mph.

Emissions of DPM from trucks traveling to and from the project warehouse were calculated using emission factors from CARB's EMFAC2021 version 1.0.2 online database (CARB 2023g). The truck fleet mix was estimated from the project TIS which reported that the project high-cube fulfillment center truck ADT would consist of 16 two-axle trucks, 20 three-axle trucks, and 62 four or more axle trucks (LLG 2023). Two-axle trucks were assumed to be light-heavy duty (LHDT2; 10,000 to 14,000 pounds gross vehicle weight [GVW]). Three-axle trucks were assumed to be medium-heavy duty (MHDT; 14,000 to 33,000 GVR). Four or more axle trucks were assumed to be HHDT. The TIS did not analyze truck percentages for the cold storage warehouse trips. The cold storage warehouse truck trips were determined from data in the study *High-Cube Warehouse Vehicle Trip Generation Analysis,* prepared for SCAQMD, which reports that the cold-storage warehouse average vehicle mix is approximately 39.5 percent trucks (Institute of Transport Engineers 2016), or 23 ADT (20 trucks would be HHDT and the remaining were assumed to be MHDT).

All trucks associated with the project's cold-storage warehouse space (23 ADT) were assumed to be equipped with a TRU. Although a small percentage of TRUs currently in service are capable of running off of batteries, to be conservative (health protective), all TRUs were assumed to be directly powered by a diesel engine or be electrically powered and supplied by a diesel-powered generator mounted on the truck or trailer.

Emissions of DPM for TRUs were calculated using emission factors from CARB's OFFROAD2021 version 1.0.5 online database (CARB 2023g). OFFROAD 2021 contains population and emission data for TRUs directly powered by a diesel engine, and for TRUs supplied by a diesel-powered generator. TRUs were assumed to operate for an average total of 4 hours at the loading dock before and/or after unloading/loading.

4.1.4.2 Dispersion Modeling

Localized concentrations of DPM were modeled using Lakes AERMOD View version 10.2.1. The Lakes program utilizes the USEPA's AERMOD gaussian air dispersion model version 2111. Plot files from AERMOD using unitized emissions (one gram per second) for each DPM source were imported into CARB's Hotspots Analysis and Reporting Program (HARP), Air Dispersion Modeling and Risk Tool (ADMRT) version 22118. The ADMRT calculated ground-level concentrations of DPM utilizing the imported plot files and the annual and hourly emissions inventory. The modeling input and output are included in Appendix B to this report

Source Parameters

Because most of the off-road diesel equipment anticipated to be used for project emissions are mobile and exact location of use on the project site cannot be reasonably determined, off-road equipment emissions and haul truck idling emissions were modeled as an area source corresponding to the project site minus a 2-meter (6.5 feet) setback from the property line (to account for a portion of the equipment width). Off-road equipment emissions were assumed to be emitted at an average height of 3 meters (9.8 feet) corresponding to the typical exhaust stack height for heavy off-road construction equipment.

Construction haul trucks and operational warehouse trucks traveling streets around the project site, on project driveways, and within the project site were modeled as line volume sources following methodology/calculations recommended in the USEPA Haul Road Workgroup Final Report, using an average truck height of 4 meters (13.1 feet), the average road width for on-street travel, and an average truck width of 2.6 meters (8.5 feet) for driveways and on-stie circulation (USEPA 2011). Two construction haul routes were modeled assuming haul trucks would access I-605 from Firestone Avenue: 50 percent of truck entering/leaving the project site east on Hall Road, turning north on Woodruff Avenue, then turning southeast on Firestone Boulevard; and 50 percent of trucks entering/leaving the project site east on Stewart and Gray Road, then turning southeast on Firestone Boulevard. Operational warehouse trucks were modeled traveling on the routes extending up to 500 meters from the project site (0.3 mile), as identified in the TIS: Hall road from the northwest project driveway to Woodruff Avenue; Woodruff Avenue from Hall road to Firestone Boulevard; Firestone Boulevard from Woodruff Avenue to southeast approximately 300 meters (0.2 mile); Stewart and Gray Road from the west project driveway to approximately 300 meters (0.2) mile west of the project site; Stweart and Gray Road along the project frontage; Stewart and Gray Road from the project east driveway to approximately 300 meters (0.2 mile) east of Woodruff Avenue; and Woodruff Avenue to approximately 300 meters (0.2 mile) south of Stewart and Gray Road.

Trucks parked in the loading dock area and parking area were modeled as volume sources with a 25-meter (82-foot) wide base and a height of 4 meters (13.1 feet). Five identical volume sources were placed in the project building loading dock areas: two on the east side, two on the west side, and one on the north side.

Emissions of DPM would not be constant throughout the day. For construction emissions, variable emissions were used assuming construction would occur from 7 a.m. to 4 p.m. Monday through Friday. For operational emissions, the volume of trucks entering and exiting the site would vary by hour of the day and day of the week. However, since the project is assumed to operate 24 hours per day, 7 days per week, the truck volume was assumed to be steady throughout all hours of the day and week. This modeling assumption is generally conservative (health protective).

Meteorological Data

SCAQMD provides pre-processed meteorological data suitable for use with AERMOD (SCAQMD 2017). The available data set recommended by SCAQMD for the project area was from the Pico Rivera station, approximately 4 miles northeast of the project site. A wind rose for the Pico Rivera station shows an average wind speed of 4.5 mph from the southwest (SCAQMD 2017). The wind rose graphics are included in Appendix B to this report. The Pico Rivera station set includes 5 years of data collected between 2010 and 2016. Urban dispersion coefficients with a Los Angeles County population of 9,818,605 were selected in the model in accordance with SCAQMD modeling recommendations (SCAQMD 2023b).

Terrain Data

United States Geological Survey (USGS) National Elevation Dataset (NED) files with a 10-meter resolution covering an area approximately one kilometer by one kilometer around the project site were used in the model to cover the analysis area. Terrain data was imported to the model using AERMAP, a terrain preprocessing program for AERMOD.

Receptor Modeling

To develop risk isopleths (linear contours showing equal level of risk), receptors were placed in a cartesian grid 1,300 meters by 1,300 meters (approximately 0.8 mile by 0.8), centered on the project site with a grid spacing of 50 meters (164 feet), in accordance with the SCAQMD guide recommendations (SCAQMD 2023b). To ensure the area of maximum off-site impact was captured, receptors were placed along the project boundary at 20-meter (66 feet) intervals. Additional discrete receptors were placed at the closest primary outdoor spaces for the 8 closest residences around the project site (including residences near the project ruck routes on Hall Road and Woodruff Avenue) and 7 closest worker locations (commercial or industrial buildings). See Figure 4, *Receptor Locations*, for the modeled discrete receptor locations relative to the project site and modeled sources.

4.1.4.3 Risk Determination

Health risks resulting from localized concentration of DPM were estimated using the ADMRT. The latest cancer slope factors and chronic Reference Exposure Limits (RELs), and exposure paths for all TACs designated by CARB are included in ADMRT. For the residential cancer risk, an exposure duration of 30 years was selected in accordance with the OEHHA (2015) guidelines.

The model conservatively assumes that residents would be standing and breathing outdoors at the location of the property line closest to the project every day between 17 and 21 hours per day (depending on the age group, starting with infants in utero in the third trimester of pregnancy) for 30 years. The Risk Management Policy (RMP) using the derived method for the intake rate percentile was selected in accordance with the SCAQMD guide recommendations (SCAQMD 2023b). For off-site worker cancer risk, an exposure duration of 25 years was selected with an assumption of 8 hours per day, 5 days per week of exposure while standing outside with moderate intensity breathing rates, in accordance with the OEHHA guidelines. Because DPM only has an inhalation cancer slope factor and an inhalation chronic REL, only the cancer risk and chronic risk from exposure to DPM was evaluated (acute risk and 8-hour chronic risk would be zero), and only the inhalations pathway was evaluated. The risk modeling input and output is included in Appendix B to this report.

Because the most intensive use of heavy construction equipment would occur during demolition/site preparation and grading activities, potential health risks for construction were modeled in two periods: construction period 1 (demolition/site preparation and grading) is anticipated to last 5.3 months and was modeled using the minimum exposure duration of 6 months (0.5 year) available in the ADMRT, starting with infants in utero in the third trimester of pregnancy for residential risks and age 16 for worker risks; and construction period 2 (off-site improvements, building construction, architectural coatings, and paving)) is anticipated to last 8.3 months and was modeled using an exposure duration of 0.7 year starting at age 0 for residential risks and age 16 for worker risks. The remaining exposure period was modeled using operational emissions starting in 2026 and lasting 29 years for residential risks starting at age 1, and 24 years for worker risks starting at age 17. Total health risks were calculated by summing the construction period 1, construction period 2, and operational risks for each receptor.

Cancer burden evaluates an overall population's increased cancer risk and is defined as the increases in cancer cases in the population due exposure to TACs from a project. Cancer burden is calculated differently from individual risk. Per OEHHA, cancer burden uses a 70-year exposure to evaluate population-wide cancer risk, and the cancer burden only evaluates residential exposure (not worksites). Cancer burden is calculated by multiplying the number of residents exposed to an incremental excess

cancer risk of 1 in 1 million or greater by the estimated incremental excess cancer risk of the maximally exposed individual resident (MEIR).

4.2 SIGNIFICANCE CRITERIA

4.2.1 Air Quality

Thresholds used to evaluate potential air quality and odor impacts are based on applicable criteria in the State's California Environmental Quality Act (CEQA) Guidelines Appendix G. A significant air quality and/or odor impact could occur if the implementation of the proposed project would:

1. Conflict with or obstruct implementation of the SCAQMD Air Quality Management Plan, or applicable portions of the SIP; or

2. Result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is non-attainment under an applicable NAAQS or CAAQS; or

3. Expose sensitive receptors to substantial pollutant concentrations; or

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

Appendix G of the State CEQA Guidelines states that the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the above determinations. The SCAQMD has established significance thresholds to assess the regional and localized impacts of project-related air pollutant emissions. The significance thresholds are updated, as needed, to appropriately represent the most current technical information and attainment status in the SCAB. Table 11, *SCAQMD Thresholds of Significance*, presents the most current significance thresholds, including regional daily thresholds for short-term construction and long-term operational emissions; maximum incremental cancer risk and hazard indices for TACs; and maximum ambient concentrations for exposure of sensitive receptors to localized pollutants. A project with daily emission rates, risk values, or concentrations below these thresholds is generally considered to have a less than significant effect on air quality.

I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\AQGHG\Fig4_ReceptorLocs.mxd 04967.00001.001 9/21/2023 - SAB

HELIX Environmental Planning

Receptor Locations

Figure 4

Table 11
SCAQMD THRESHOLDS OF SIGNIFICANCE

Pollutant	Construction	Operation
Mass Daily Thresholds (pounds per day)		
VOC	75	55
NO_X	100	55
CO	550	550
PM_{10}	150	150
$PM_{2.5}$	55	55
SO_X	150	150
Lead	3	3
Toxic Air Contaminants		
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index ≥ 1.0 (project increment)	
Ambient Air Quality for Criteria Pollutants		
NO_2	1-hour average ≥ 0.18 ppm Annual average ≥ 0.03 ppm	
CO	1-hour average ≥ 20.0 ppm (state) 8-hour average ≥ 9.0 ppm (state/federal)	
PM_{10}	24-hour average ≥ 10.4 µg/m^3 (construction) 24-hour average ≥ 2.5 µg/m^3 (operation) Annual average ≥ 1.0 µg/m^3	
$PM_{2.5}$	24-hour average ≥ 10.4 µg/m^3 (construction) 24-hour average ≥ 2.5 µg/m^3 (operation)	
SO_2	1-hour average ≥ 0.075 ppm 24-hour average ≥ 0.04 ppm	

Source: SCAQMD 2019
VOC = volatile organic compound; NO_X = nitrogen oxides; CO = carbon monoxide; PM_{10} = respirable particulate matter with a diameter of 10 microns or less; $PM_{2.5}$ = fine particulate matter with a diameter of 2.5 microns or less; SO_X = sulfur oxides; TACs = toxic air contaminants; GHG = greenhouse gas; MT/yr = metric tons per year; CO_2e = carbon dioxide equivalent; NO_2 = nitrogen dioxide; ppm = parts per million; µg/m^3 = micrograms per cubic meter

4.2.2 Greenhouse Gases

Given the relatively small levels of emissions generated by a typical development in relationship to the total amount of GHG emissions generated on a national or global basis, individual development projects are not expected to result in significant, direct impacts with respect to climate change. However, given the magnitude of the impact of GHG emissions on the global climate, GHG emissions from new development could result in significant, cumulative impacts with respect to climate change. Therefore, the potential for a significant GHG emissions impact is limited to cumulative impacts.

According to Appendix G of the CEQA Guidelines, a project would have a significant environmental impact if it would:

(1) Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

(2) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

The determination of significance is governed by CEQA Guidelines 15064.4, entitled "Determining the Significance of Impacts from Greenhouse Gas Emissions." CEQA Guidelines Section 15064.4(a) states, "[t]he determination of the significance of greenhouse gas emissions calls for a careful judgment by the lead agency consistent with the provisions in Section 15064. A lead agency should make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of greenhouse gas emissions resulting from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to … [use a quantitative model or qualitative model]" (emphasis added). In turn, CEQA Guidelines Section 15064.4(b) clarifies that a lead agency should consider "Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project." Therefore, consistent with CEQA Guidelines Section 15064.4, the GHG emissions analysis for the project appropriately relies upon a threshold based on the exercise of careful judgement and believed to be appropriate in the context of this project.

On December 5, 2008, the SCAQMD Governing Board adopted their Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans for projects where the SCAQMD is the lead agency. The SCAQMD's interim GHG significance threshold uses a tiered approach to determining significance. Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA. Tier 2 consists of determining whether or not the project is consistent with a GHG emission reduction plan that may be part of a local general plan, for example. Tier 3 establishes a screening significance threshold level to determine significance using a 90 percent emission capture rate approach. Tier 4, to be based on performance standards, is yet to be developed. Under Tier 5 the project proponent would allow offsets to reduce GHG emission impacts to less than the proposed screening level.

For industrial projects with emissions primarily from stationary sources, the SCAMD has adopted a threshold of 10,000 MT CO_2e per year. The SCAQMD has continued to consider adoption of significance thresholds for residential and general development projects. The most recent proposal issued in September 2010 uses the following tiered approach to evaluate potential GHG emission impacts from various uses. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO_2e/year), commercial projects (1,400 MT CO_2e/year), and mixed-use projects (3,000 MT CO_2e/year). Under option 2, a single numerical screening threshold of 3,000 MT CO_2e/year would be used for all non-industrial projects. These thresholds have not been adopted by the SCAQMD or distributed for widespread public review and comment, and the working group tasked with developing the thresholds has not met since September 2010. The future schedule and likelihood of threshold adoption is uncertain.

If the CARB adopts statewide significance thresholds, SCAQMD staff plans to report back to the SCAQMD Governing Board regarding any recommended changes or additions to the SCAQMD's interim threshold.

As the City does not currently have any approved quantitative thresholds related to GHG emissions, the quantitative analysis provided herein relies upon the SCAQMD proposed screening threshold for non-industrial facility projects of 3,000 MT CO_2e (SCAQMD 2008). Even though a warehouse land use is considered an industrial use, the emissions are primarily from mobile sources (cars and trucks), not stationary sources. Therefore, to be conservative, the project emissions are compared to the much lower non-industrial screening threshold.

5.0 AIR QUALITY IMPACT ANALYSIS

This section evaluates potential direct impacts of the proposed project related to the air pollutant emissions. Project-level air quality modeling was completed as part of this analysis. Complete modeling results are included as Appendix A of this report.

5.1 ISSUE 1: CONFLICTS WITH AIR QUALITY PLANS

5.1.1 Impacts

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties, and addresses regional issues relating to transportation, economy, community development, and environment. With regard to air quality planning, SCAG has prepared the RTP/SCS, a long-range transportation plan that uses growth forecasts to project trends out over a 20-year period to identify regional transportation strategies to address mobility needs. These growth forecasts form the basis for the land use and transportation control portions of the AQMP. These documents are utilized in the preparation of the air quality forecasts and consistency analysis included in the AQMP. Both the RTP/SCS and AQMP are based, in part, on regional population and employment growth projections originating with County and City General Plans.[2]

Projects that are consistent with the land use designation for their project site are generally consistent with the population and growth assumptions used in the AQMP. The project does not have a residential component and would not result in regional population growth. The project site is designated General Manufacturing (GM) in the Downey General Plan Vision 2025. The project's proposed warehouse uses (fulfillment center and cold storage) are consistent with the GM land use designation. As such, employment growth in the City as a result of the project, and the related changes in regional emissions, are accounted for in the AQMP, which is crafted to bring the basin into attainment for all criteria pollutants. Therefore, the proposed project would not conflict with or obstruct implementation of the AQMP.

5.1.2 Significance of Impacts

Implementation of the project would not conflict with or obstruct implementation of the SCAQMD's AQMP, and the impact would be less than significant.

5.1.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.1.4 Significance After Mitigation

Impacts related to conflicts with the applicable air quality plan would be less than significant.

[2] SCAG serves as the federally designated metropolitan planning organization for the southern California region.

5.2 ISSUE 2: CUMULATIVELY CONSIDERABLE NET INCREASE OF NONATTAINMENT CRITERIA POLLUTANTS

By its very nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development within the SCAB. The region is a federal and/or state nonattainment area for ozone, PM_{10} and $PM_{2.5}$. In accordance with CEQA Guidelines Section 15064(h)(3), the SCAQMD's approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and State Clean Air Acts. If a project conflicts with the AQMP, which is intended to bring the SCAB into attainment for all criteria pollutants, that project can be considered cumulatively considerable. Additionally, if the mass regional emissions calculated for a project exceed the applicable SCAQMD daily significance thresholds that are designed to assist the region in attaining the applicable state and national ambient air quality standards, that project can be considered cumulatively considerable. As discussed in Issue 1, above, the project would not conflict with or obstruct implementation of the AQMP.

5.2.1 Impacts

The project would generate criteria pollutants and precursors in the short-term during construction and the long-term during operation. To determine whether a project would result in cumulatively considerable emissions that would violate an air quality standard or contribute substantially to an existing or projected air quality violation, a project's emissions are evaluated based on the quantitative emission thresholds established by the SCAQMD (as shown in Table 11).

5.2.1.1 Construction

The project's construction emissions were estimated using the CalEEMod model as described in Section 4.1.1. Additional details of phasing, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

The results of the calculations for project Phase 1 and Phase 2 construction are shown in Table 12, *Maximum Daily Construction Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the SCAQMD thresholds.

Table 12
MAXIMUM DAILY CONSTRUCTION EMISSIONS

Activity	Pollutant Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Demolition/Site Preparation	3.0	32.6	26.8	<0.1	27.8	4.0
Grading/ Underground Utilities	4.2	56.6	41.3	0.2	78.9	11.2
Concurrent Grading and Off-site Improvements	4.7	60.8	48.0	0.2	79.2	11.3
Concurrent Off-site Improvements and Building Construction	3.0	21.4	40.1	<0.1	4.6	1.6
Building Construction	2.5	17.6	30.9	<0.1	4.3	1.5
Concurrent Building Construction, Architectural Coatings, and Paving	65.2	34.2	47.8	0.1	7.5	2.5
Maximum Daily Emissions	**65.2**	**60.8**	**48.0**	**0.2**	**79.2**	**11.3**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
VOC = volatile organic compounds; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides;
PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 12, construction period emissions of criteria pollutants and precursors would not exceed the SCAQMD significance thresholds.

5.2.1.2 Operation

The project's operational emissions were estimated using the CalEEMod model as described in Section 4.1.2. Model outputs are provided in Appendix A. Table 13, *Maximum Daily Operational Emissions*, compares the project's net maximum daily operational emissions (project emissions minus existing land use emissions) with the SCAQMD thresholds. Detailed modeled existing land use emissions are shown in Section 3.3, above.

Table 13
MAXIMUM DAILY OPERATIONAL EMISSIONS

Category	Pollutant Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area	16.2	<0.1	<0.1	<0.1	<0.1	<0.1
Energy	0.2	2.9	2.4	<0.1	0.2	0.2
Mobile	11.0	24.6	95.6	0.3	26.5	7.0
Project Total Daily Emissions[1]	**27.4**	**27.5**	**98.0**	**0.4**	**26.7**	**7.3**
Existing Use Daily Emissions	(18.2)	(34.5)	(74.0)	(0.3)	(16.1)	(4.6)
Project Net Daily Emissions[2]	**9.2**	**-7.0**	**24.0**	**0.1**	**10.6**	**2.7**
SCAQMD Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
[2] Maximum daily emissions of VOC, SO_X, PM10, and PM2.5 occur during summer, maximum daily emissions of NO_X and CO occur during winter.
VOC = volatile organic compounds; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides;
PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 13, both the project actual daily emissions and the project net emissions (project emissions minus exiting use emissions) during operation of the project would not exceed the daily thresholds set by the SCAQMD. The decrease in NO_X emissions as a result of project implementation would be primarily due to the decrease in truck trips from 818 ADT to 123 ADT, as reported in the TIS (LLG 2023).

5.2.2 Significance of Impacts

Short-term construction and long-term operation of the project would not result in criteria pollutant and precursor pollutant emissions that would exceed the SCAQMD significance thresholds, and the impact would be less than significant.

5.2.3 Mitigation Framework

Project emissions would not exceed the SCAQMD thresholds, would be less than significant, and no mitigation measures would be required.

5.2.4 Significance After Mitigation

The project would not result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is non-attainment, and the impact would be less than significant.

5.3 ISSUE 3: IMPACTS TO SENSITIVE RECEPTORS

5.3.1 Impacts

5.3.1.1 Construction Activities

Criteria Pollutants

The localized effects from the on-site portion of daily construction emissions were evaluated at sensitive receptor locations potentially impacted by the project according to the SCAQMD's LST method, described above. The proposed project is within SRA 5, Southeast Los Angeles County. Consistent with the LST guidelines, when quantifying mass emissions for localized analysis, only emissions that occur on site are considered. Emissions related to off-site delivery/haul truck activity and construction worker trips are not considered in the evaluation of construction-related localized impacts, as these mobile emissions are spread along area roadways and are not localized. The closest sensitive receptor is the single-family residence approximately 240 feet east of the project site. Therefore, the LSTs in SRA 5 for project sites of 5 acres with receptors located between 50 and 100 meters (164 to 328 feet) are used in this analysis. Table 14, *Maximum Localized Daily Construction Emissions*, shows the localized construction emissions.

Table 14
MAXIMUM LOCALIZED DAILY CONSTRUCTION EMISSIONS

Activity	Pollutant Emissions (pounds per day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Demolition/Site Preparation	26.4	23.2	1.1	1.6
Grading/ Underground Utilities	35.8	31.7	5.1	2.8
Building Construction	12.8	14.6	0.6	0.5
Architectural Coatings	0.9	1.1	0.0	0.0
Paving	7.5	10.0	0.4	0.3
Concurrent 2025 Building Construction, Paving and Architectural Coating	20.1	25.6	0.9	0.8
Maximum Daily Emissions	**35.8**	**31.7**	**5.1**	**2.8**
SCAQMD LST Thresholds (100 meters)	*176*	*2,437*	*60*	*15*
Exceed LST (100 meters)?	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
NO_X = nitrogen oxides; CO = carbon monoxide; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 14, localized emissions for all criteria pollutants would remain below their respective SCAQMD LSTs. Therefore, construction of the project would not result in exposure of sensitive receptors to substantial localized concentrations of criteria pollutants and precursors.

Asbestos Containing Material and Lead Based Paint

As described in the project DEIR, Section 4.7, Hazards and Hazardous Materials, ACM and LBP have been identified in existing buildings on the project site. The DEIR identified mitigation measures HAZ-2, Asbestos-Containing Material Removal, and HAZ-3, Lead-Based Paint Removal, to ensure the removal, handling, transport, and disposal of ACM and LBP during project demolition activities comply with federal, state, and SCAQMD regulations to prevent airborne asbestos and lead emissions which may affect sensitive receptors or workers in the area. The mitigation measures require removal of ACM by a licensed State of California asbestos abatement contractor, compliance with state asbestos handling regulations (CCR Tile 8, Section 1529), state hazardous waste disposal requirements (CCR Title 22, Division 4.5), and the State Lead Accreditation, Certification and Work Practice Requirements (CCR Title 17, Division 1, Chapter 8), and SCAQMD Rule 1403.

VOC Contaminated Soil

As described in the project DEIR, Section 4.7, Hazards and Hazardous Materials, soil vapor testing on the project site has identified VOCs exceeding DTSC screening levels. The DEIR identified mitigation measures HAZ-1, VOC-Contaminated Soil, to monitor for signs of contaminated soil during project demolition and construction activities, identify and test potentially and isolate contaminated, and ensure adequate dust suppressions is employed and ensure the safe removal, handling, transport, and disposal of contaminated soil. DEIR mitigation measure HAZ-1 and compliance with applicable federal and state regulations would ensure VOC emissions from contaminated soil would not adversely affect sensitive receptors and workers in the area.

Diesel Particulate Matter

Implementation of the project would result in the use of heavy-duty construction equipment, haul trucks, on-site generators, and construction worker vehicles. These vehicles and equipment could generate the TAC DPM. Generation of DPM from construction projects typically occurs in a localized area (e.g., at the project site) for a short period of time. Because construction activities and subsequent emissions vary depending on the phase of construction (e.g., grading, building construction), the construction-related emissions to which nearby receptors are exposed to would also vary throughout the construction period. During some equipment-intensive phases such as grading, construction-related emissions would be higher than other less equipment-intensive phases such as building construction. An HRA was completed to evaluate potential community health risks from exposure to project DPM emissions, as described in Section 4.1.4, above.

The dose (of TAC) to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance in the environment and the extent of exposure a person has with the substance; a longer exposure period to a fixed quantity of emissions would result in higher health risks. Current models and methodologies for conducting cancer health risk assessments are associated with longer-term exposure periods (typically 30 years for individual residents based on guidance from OEHHA) and are best suited for evaluation of long duration TAC emissions with predictable schedules and locations. Cancer potency factors are based on animal lifetime studies or worker studies where there is consistent long-term exposure to the carcinogenic agent. There is considerable uncertainty in trying to evaluate the cancer risk from activities such as short-term construction, that will only last a small fraction of a lifetime (OEHHA 2015).

The incremental increased cancer risk is an estimate of the chance a person exposed to a specific source of a TAC may have of developing cancer from that exposure beyond the individual's risk of developing cancer from existing background levels of TACs in the ambient air. For context, the average cancer risk from TACs in the ambient air for an individual living in an urban area of California is 830 in 1 million (CARB 2015). Cancer risk estimates do not mean, and should not be interpreted to mean, that a person will develop cancer from estimated exposures to toxic air pollutants. The results of the construction period HRA incremental excess cancer risks are compared to the SCAQMD threshold in Table 15, *Construction Incremental Increased Cancer Risk*. The complete HRA results and output are included in Appendix B to this report.

Table 15
CONSTRUCTION INCREMENTAL INCREASED CANCER RISK

Receptor	Construction Period 1 (chances per million)[1]	Construction Period 2 (chances per million)[2]	Total Construction Risk (chances per million)	SCAQMD Threshold (chances per million)	Exceed Threshold?
R1	1.4	1.1	2.4	10	No
R2	2.4	0.6	3.0	10	No
R3	2.3	1.2	3.5	10	No
R4	3.5	1.7	5.1	10	No
R5	0.8	0.6	1.4	10	No
R6	1.4	1.1	2.5	10	No
R7	1.5	1.2	2.7	10	No
R8	1.4	1.1	2.5	10	No
W1	<0.1	<0.1	0.1	10	No
W2	0.1	<0.1	0.1	10	No
W3	0.1	0.1	0.1	10	No
W4	0.1	0.1	0.2	10	No
W5	0.1	<0.1	0.1	10	No
W6	0.1	0.1	0.1	10	No
W7	0.1	0.1	0.1	10	No

Source: Lakes AERMOD View and CARB ADMRT. See Appendix B for the complete HRA results and output.

[1] Construction Period 1 = demolition/site preparation and grading (0.5 years).

[2] Construction Period 2 = off-site improvements, building construction, architectural coatings, and paving (0.7 years).

As shown in Table 15, the incremental excess cancer risk for off-site modeled residents and workers from exposure to project DPM emissions would not exceed the SCAQMD threshold. The total combined project construction and operational health risks are discussed in the Operational Activities section, below.

Health risks associated with non-cancer chronic effects from TAC exposure are quantified using the maximum hazard index. A hazard index is the potential exposure to a substance divided by the REL (the level at which no adverse effects are expected). A hazard index of less than one indicates no adverse health effects are expected from the potential exposure to the substance. The maximum hazard index is the sum of hazard indices for pollutants with non-cancer health effects that target the same body organ or system. The results of the HRA show that the maximum residential non-cancer chronic maximum hazard index would be 0.01, far below the SCAQMD hazard index threshold of 1. The complete HRA results and output are included in Appendix B to this report.

5.3.1.2 Operational Activities

Criteria Pollutants

As discussed in Section 4.1.3, SCAQMD has developed the LST methodology that can be used by public agencies to determine whether a project may generate significant adverse localized air quality impacts from on-site emissions of NO_X, CO, PM_{10} and $PM_{2.5}$. For project operational activities, emissions of NO_X and CO are associated with truck and passenger vehicle emissions which primarily occur off-site. The portion of truck and passenger vehicle emissions which occur on-site are limited to low-speed circulation and idling and would be a small portion of the project operational emissions of 28 pounds

per day of NO_X and 98 pounds per day of CO, far below the applicable LST thresholds of 176 pounds per day NO_X and 2,437 pounds per day CO. Operational PM_{10} and $PM_{2.5}$ emissions from areas sources (primarily landscape equipment exhaust) and energy sources (natural gas combustion exhaust) would be negligible—less than 0.3 pound per day (see Appendix A). The only remaining on-site operational source of PM emissions would be low-speed circulation and idling exhaust emissions from trucks. The total exhaust PM emissions produced on or near the project site by project-related truck trips would be approximately 1.2 pounds per year (less than 0.001 pounds per day) of PM_{10} and $PM_{2.5}$ (see Appendix B), far below the LST threshold of 15 pounds per day for PM_{10} and 4 pounds per day for $PM_{2.5}$. Therefore, operation of the project would not result in exposure of sensitive receptors to substantial localized concentrations of NO_X or CO. Impacts related to exposure of sensitive receptors to project operational emissions of PM (primarily DPM) are discussed and evaluated below.

CO Hotspots

Vehicle exhaust is the primary source of CO. In an urban setting, the highest CO concentrations are generally found in close proximity to congested intersections. Under typical meteorological conditions, CO concentrations tend to decrease as distance from the emissions source (e.g., congested intersection) increases. Project-generated traffic has the potential of contributing to localized "hotspots" of CO off site. Because CO is a byproduct of incomplete combustion, exhaust emissions are worse when fossil fueled vehicles are operated inefficiently, such as in stop-and-go traffic or through heavily congested intersections. Because CO disperses rapidly, hotpots are most likely to occur in areas with limited vertical mixing such as tunnels, long underpasses, or below-grade roadways.

The analysis prepared for CO attainment in the SCAB by SCAQMD can be used as a screening tool in evaluating the potential for CO exceedances in the SCAB, and any potential need for further modeling. CO attainment was thoroughly analyzed as part of SCAQMD's 2003 AQMP where the results of a CO hotspot analysis was conducted for the four worst-case scenario intersections in the Los Angeles metropolitan area at the peak morning and afternoon time periods. The intersections evaluated included (1) Long Beach Boulevard and Imperial Highway (Lynwood); (2) Wilshire Boulevard and Veteran Avenue (Westwood); (3) Sunset Boulevard and Highland Avenue (Hollywood); and (4) La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The peak modeled CO concentrations due to vehicle emissions occurred at the intersection of Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The 2003 AQMP estimated the 1-hour concentration for this intersection at 4.6 ppm, which indicates the most stringent 1-hour CO standard (20.0 ppm) would not likely be exceeded until the daily traffic at the intersection exceeded more than 400,000 vehicles per day (SCAQMD 2003).[3] Therefore, if a project intersection does not exceed 400,000 vehicles per day, then the project does not need to prepare a detailed CO hot spot analysis.

According to the intersection analysis contained in the TIS, the highest volume project-affected intersection would be the intersection of Firestone Boulevard and the I-605 northbound ramps. Based on the peak hour conditions of the intersection under the "Future with Project Conditions," as provided in the project TIS, the intersection would carry a PM peak hour volume of 4,288 and a daily volume of approximately 45,000 vehicles (LLG 2022), significantly below the daily traffic volumes of 400,000 vehicles per day that would be expected to generate CO concentration exceedances. Based on the studies undertaken for the 2003 AQMP, there is no reason unique to the SCAB meteorology or unique to

[3] Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

any project-affected intersection to conclude that the CO concentrations any project-affected intersection would exceed the 1-hour CO standard. Therefore, the project does not trigger the need for a detailed CO hotspots model and the project would not expose sensitive receptors to substantial concentrations of CO.

Operational DPM Emissions

Implementation of the project would result in emissions of DPM from operation of a warehouse facility. To evaluate potential impacts to sensitive receptors from the operational DPM emissions, a HRA was completed, as described in Section 4.1.4, above. According to the trip generation analysis presented in the TIS, the project would result in fewer daily truck trips than the existing industrial land uses on the project site (LLG 2023). However, to be conservative (health protective), the HRA does not consider the DPM emissions from the existing land use, or the community health benefits, that would result from removing the existing industrial land use on the project site.

The maximum estimated community incremental excess cancer risks due to exposure to the project combined 30 year construction and operational DPM emissions are presented in Table 16, *Maximum Incremental Cancer Health Risk*. These estimates are conservative (health protective) and assume that the resident or worker is outdoors for the entire exposure period (17 to 21 hours per day, every day for 30 years for residents, and 8 hours per day, 260 days per year for 25 years for workers).

Table 16
MAXIMUM INCREMENTAL CANCER HEALTH RISK

Receptor	Construction Risk (chances per million)	Operational Risk (chances per million)[2]	Total 30-Year Risk (chances per million)[3]	SCAQMD Threshold (chances per million)	Exceed Threshold?
R1	2.4	0.1	2.5	10	No
R2	3.0	0.2	3.2	10	No
R3	3.5	0.1	3.7	10	No
R4	5.1	0.2	5.3	10	No
R5	1.4	0.1	1.4	10	No
R6	2.5	0.1	2.6	10	No
R7	2.7	0.1	2.8	10	No
R8	2.5	0.1	2.5	10	No
W1	0.1	<0.1	0.1	10	No
W2	0.1	<0.1	0.1	10	No
W3	0.1	<0.1	0.2	10	No
W4	0.2	<0.1	0.3	10	No
W5	0.1	<0.1	0.1	10	No
W6	0.1	0.1	0.2	10	No
W7	0.1	<0.1	0.1	10	No

Source: Lakes AERMOD View and CARB ADMRT. See Appendix B for the complete HRA results and output.

[1] Construction exposure duration 1.2 years.

[2] Operation exposure duration 29.

[3] Totals may not sum due to rounding.

As shown in Table 16, the project's incremental increased cancer risk would not exceed the SCAQMD's threshold of 10 in 1 million. The maximum chronic health risk hazard index for all modeled receptors would be than 0.012 and would not exceed the SCAQMD's threshold of 1.

The maximally exposed individual resident (MEIR) would be receptor R4, located along Woodruff Avenue across the railroad tracks from Hall Road, and would have an incremental increased cancer risk of 5.3 in 1 million. The maximally exposed individual worker (MEIW) would be receptor W4, located outside the commercial building on the northeast side of the project site, and would have an incremental increased cancer risk of 0.3 in 1 million. The point of maximum impact (PMI) would be located at Universal Transverse Mercator (UTM) coordinates zone 11, 396614 meters east, 3755019 meters north, midway along the project's northeastern property line on the shoulder of Hall Road. No residents or workers are anticipated to be located at the PMI for extended periods. If a receptor were to be located at the PMI for 30 years, the residential cancer risk would be 20.8 in 1 million.

Cancer burden evaluates an overall population's increased cancer risk and is defined as the increases in cancer cases in the population due exposure to TACs from a project. Cancer burden is calculated differently from individual risk. Per OEHHA, cancer burden uses a 70-year exposure to evaluate population-wide cancer risk, and the cancer burden only evaluates residential exposure (not worksites). Cancer burden is calculated by multiplying the number of residents exposed to an incremental excess cancer risk of 1 in 1 million or greater by the estimated incremental excess cancer risk of the maximum exposed individual resident (MEIR). The population exposed to the 1 in 1 million or greater cancer risk was estimated by overlaying the 1 in million 70-year risk isopleth on an aerial images and counting the number of single and multi-family residential building within or touching the isopleth. 92 single family residences and 80 multi-family buildings were identified within or touching the isopleth. The multi-family building ranges in size from duplexes to 40-unit apartment buildings. To be conservative (not underestimating the population), all single-family residences were assumed to house 10 residents, and all multifamily buildings were assumed to have 40 units with 5 residents per unit (200 residents per building), for a total estimated population of 16,920. The 70-year residential cancer risk for the MEIR would be 5.5 in 1 million (5.5×10^{-6}). Therefore, the estimated cancer burden from a 1.2 year exposure to project construction emissions plus a 70 year exposure to project operational DPM emissions would be 0.09, below the SCAQMD threshold of 0.5. The cancer burden 1 in 1 million isopleth is included in Appendix B to this report.

5.3.2 Significance of Impacts

Construction of the project would not result in significant localized concentrations of criteria pollutants or TACs. Long-term operation of the project would not result in significant localized concentrations of CO. Long-term combined project construction and operational DPM emissions would not result in cancer risk, chronic health risk, and cancer burden exceeding the respective SCAQMD thresholds. Therefore, implementation of the project would not expose sensitive receptors to substantial pollutant concentrations, and the impact less than significant.

5.3.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.3.4 Significance After Mitigation

Implementation of the project would not expose sensitive receptors to substantial pollutant concentrations, and the impact would be less than significant.

5.4 ISSUE 4: OTHER EMISSIONS (SUCH AS THOSE LEADING TO ODORS)

5.4.1 Impacts

According to the SCAQMD CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations (SCAQMD 1993). The project, involving a warehouse facility development, would not include any of these uses nor are there any of these land uses in the project vicinity.

Emissions from construction equipment, such as diesel exhaust, and VOCs from architectural coatings and paving activities may generate odors; however, these odors would be temporary, intermittent, and not expected to affect a substantial number of people. Additionally, noxious odors would be confined to the immediate vicinity of construction equipment. Furthermore, short-term construction-related odors are expected to cease upon the drying or hardening of the odor-producing materials. Long-term operation of the project would not be a substantial source of objectionable odors. Therefore, the project would not create objectionable odors affecting a substantial number of people, and the impact would be less than significant.

5.4.2 Significance of Impacts

Implementation of the project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and the impact would be less than significant.

5.4.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.4.4 Significance After Mitigation

Implementation of the project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and the impact would be less than significant.

6.0 GREENHOUSE GAS EMISSIONS IMPACT ANALYSIS

This section evaluates potential impacts of the proposed project related to the generation of GHG emissions. Complete modeling results are included as Appendix A of this report.

6.1 ISSUE 1: GREENHOUSE GAS EMISSIONS

6.1.1 Construction Emissions

Project construction GHG emissions were estimated using the CalEEMod model as described in Section 4.1. Project-specific input was based on general information provided in Section 1.0 and default model settings to estimate reasonably conservative conditions. Additional details of phasing, selection

of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

Emissions of GHGs related to the construction of the project would be temporary. As shown in Table 17, *Estimated Construction GHG Emissions*, total GHG emissions associated with construction of the project are estimated at 1,721 MT CO_2e. For construction emissions, SCAQMD guidance recommends that the emissions be amortized (i.e., averaged) over 30 years and added to operational emissions. Averaged over 30 years, the proposed construction activities would contribute approximately 57.4 MT CO_2e emissions per year.

Table 17
ESTIMATED CONSTRUCTION GHG EMISSIONS

Year	Emissions (MT CO_2e)
2024	1,355
2025	366
Total[1]	**1,721**
Phase 1 Amortized Construction Emissions[2]	*57.4*

Source: CalEEMod (output data is provided in Appendix A)
1 Totals may not sum due to rounding.
2 Construction emissions are amortized over 30 years in accordance with SCAQMD guidance.
GHG = greenhouse gas; MT = metric tons; CO_2e = carbon dioxide equivalent

6.1.2 Operational Emissions

The project's operational GHG emissions were estimated using CalEEMod model as described in Section 4.1. The project's net annual GHG emissions, including amortized annual construction emissions and subtracting the existing land use GHG emissions, are shown in Table 18, *Net Operational GHG Emissions*. Detailed GHG emissions for the existing land use are shown in Section 3.3, above. Appendix A contains the CalEEMod output files for the project and existing land use.

Table 18
NET OPERATIONAL GHG EMISSIONS

Emission Sources	2024 Emissions (MT CO_2e)
Area	11
Energy	1,158
Vehicular (Mobile)	6,436
Solid Waste	157
Water	300
Refrigerants	118
Subtotal[1]	**8,180**
Construction (Annualized over 30 years)	57
Project Total[1]	**8,237**
Existing Land Use Total	(7,790)
Net Project Total[1]	**447**
SCAQMD Screening Threshold	**3,000**
Exceed Threshold?	**No**

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
GHG = greenhouse gas; MT = metric tons; CO_2e = carbon dioxide equivalent

As shown in Table 18, the net project emissions, including amortized construction emissions, would be approximately 447 MT CO_2e per year and would not exceed the non-industrial facility SCAQMD GHG screening threshold of 3,000 MT CO_2e per year.

6.1.3 Significance of Impacts

Project GHG emissions, including amortized construction emissions would not exceed the SCAQMD industrial screening threshold, and the impact would be less than significant.

6.1.4 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

6.1.5 Significance After Mitigation

Implementation of the project would not generate GHG emissions that may have a significant impact on the environment, and the impact would be less than significant.

6.2 ISSUE 2: CONFLICT WITH APPLICABLE PLANS ADOPTED FOR THE PURPOSE OF REDUCING GHG EMISSIONS

6.2.1 Impacts

There are numerous State plans, policies, and regulations adopted for the purpose of reducing GHG emissions. The principal overall State plan and policy is AB 32, the California Global Warming Solutions Act of 2006. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020. SB 32 would require further reductions of 40 percent below 1990 levels by 2030. AB 1279 establishes a state

goal of net zero GHG emissions by 2045. Statewide plans and regulations such as GHG emissions standards for vehicles (AB 1493), the LCFS, and regulations requiring an increasing fraction of electricity to be generated from renewable sources are being implemented at the statewide level; as such, compliance at the project level is not addressed. Therefore, the proposed project would not conflict with those plans and regulations.

The project does not have a residential component and would not result in regional population growth and (as discussed in Section 6.1, above) project GHG emissions would decrease compared to the existing land use emissions. Therefore, the project would not conflict with or obstruct implementation of an applicable GHG emissions reduction plan.

6.2.2 Significance of Impacts

The project would not conflict with applicable GHG emission reduction plans including the SCAG's RTP/SCS and the City's CAP, and the impact would be less than significant.

6.2.3 Mitigation Framework

Impacts would be less than significant, and no mitigation would be required.

6.2.4 Significance After Mitigation

The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and the impact would be less than.

7.0 LIST OF PREPARERS

Martin Rolph	Air Quality Specialist
Victor Ortiz	Senior Air Quality Specialist
Joanne Dramko, AICP	Principal Air Quality Specialist

HELIX Environmental Planning, Inc.
16485 Laguna Canyon Road, Suite 150
Irvine, CA 92618

8.0 REFERENCES

California Air Pollution Control Officers Association (CAPCOA). 2022. User's Guide for CalEEMod Version 2022.1. Available at: http://www.caleemod.com/.

California Air Resources Board (CARB). 2023a. California Ambient Air Quality Standards. Available at: https://ww2.arb.ca.gov/resources/california-ambient-air-quality-standards. Accessed September 15.

2023b. Overview: Diesel Exhaust and Health. Available at: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health. Accessed September 15.

2023c. State Implementation Plan Background. Available at: https://ww2.arb.ca.gov/our-work/programs/california-state-implementation-plans/about. Accessed September 15.

2023d. Clean Car Standards – Pavley, Assembly Bill 1493. Accessed December. Available at: http://www.arb.ca.gov/cc/ccms/ccms.htm. Accessed September 15.

2023e. ADAM Air Quality Data Statistics: Top 4 Summary. Available at: https://www.arb.ca.gov/adam/topfour/topfour1.php. Accessed September 15.

2023f. Current California GHG Emission Inventory Data. Available at: https://ww2.arb.ca.gov/ghg-inventory-data. Accessed September 15.

2023g. Emissions inventory from on-road and off-road mobile sources in California. Available at: https://arb.ca.gov/emfac/emissions-inventory/. Accessed September 15.

2022. 2022 Scoping Plan for Achieving Carbon Neutrality. November 16. Available at: https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents.

2016. Ambient Air Quality Standards. May 4. Available at: https://ww2.arb.ca.gov/sites/default/files/2020-03/aaqs2_0.pdf.

2015. Risk Management Guidance for Stationary Sources of Air Toxics. Available at: https://www.arb.ca.gov/toxics/rma/rmgssat.pdf.

2011. California Code of Regulations, Title 13, Division 3, Chapter 9, Article 8 Section 2477, Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate. Available at: https://ww2.arb.ca.gov/sites/default/files/classic/diesel/tru/documents/fro_10-16-12.pdf?_ga=2.11187511.2095568124.1639500748-597969877.1605810605.

2007. California Greenhouse Gas Inventory – By Sector and Activity. November 19. Available at: https://ww2.arb.ca.gov/sites/default/files/classic/cc/ghg_inventory_sector_sum_90-04_AR4.pdf.

California Air Resources Board (CARB; cont.)

2005. Air Quality and Land Use Handbook: A Community Health Perspective. April. Available at: https://ww2.arb.ca.gov/sites/default/files/2023-05/Land Use Handbook_0.pdf.

California Building Standards Commission (CBSC). 2022. CALGreen (CCR Title 24, Part 11). Available at: https://www.dgs.ca.gov/BSC/CALGreen.

California Energy Commission (CEC). 2022. CCR Title 24 Part 6, 2022 Building Energy Efficiency Standards. Available at: https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency.

Climate Watch. 2023. Historical GHG Emissions. Available at: https://www.climatewatchdata.org/ghg-emissions?source=CAIT. Accessed September 15.

Intergovernmental Panel on Climate Change (IPCC). 2014. Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Available at: https://www.ipcc.ch/report/ar5/wg3/.

2013. Climate Change 2013: The Physical Science Basis. Working Group I Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Available at: https://www.ipcc.ch/report/ar5/wg1/.

2007. Climate Change 2007: The Physical Science Basis. Summary for Policymakers. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. February. Available at: https://www.ipcc.ch/report/ar4/wg1/.

Institute of Transport Engineers. 2016. High-Cube Warehouse Vehicle Trip Generation Analysis. October. Available at: http://library.ite.org/pub/a3e6679a-e3a8-bf38-7f29-2961becdd498.

Iowa Environmental Mesonet (IEM). 2022. Fullerton Municipal Airport Windrose Plot. Available at: https://mesonet.agron.iastate.edu/sites/windrose.phtml?station=FUL&network=CA_ASOS.

Linscott Law & Greenspan, Engineers (LLG). 2023. Transportation Impact Study Prologis Stewart and Gray Road Warehouse Project. January 19.

National Aeronautics and Space Administration, Goddard Institute for Space Studies (NASA).2023a. Global Temperature. Available at: https://climate.nasa.gov/vital-signs/global-temperature/#:~:text=Earth's%20global%20average%20surface%20temperature,average%20from%201951%20to%201980. Accessed September 15.

2023b. 2022 Fifth Warmest Year on Record, Warming Trend Continues. January 12. Available at: https://www.nasa.gov/press-release/nasa-says-2022-fifth-warmest-year-on-record-warming-trend-continues.

National Oceanic and Atmospheric Administration (NOAA). 2023. Trends in Atmospheric Carbon Dioxide. Available at: https://www.esrl.noaa.gov/gmd/ccgg/trends. Accessed September 15.

Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. February. Available at: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.

South Coast Air Quality Management District (SCAQMD). 2023a. MATES V Multiple Air Toxics Exposure Study. Available at: http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v. Accessed September 15.

2023b. Modeling Guidance for AERMOD. Available at: http://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance. Accessed September 15.

2022a. 2022 Air Quality Management Plan. Adopted December 2. Available at: http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan.

2021a. Rule 2305 – Warehouse Indirect Source Rule. May. Available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xxiii/r2305.pdf?sfvrsn=15.

2021b. Second Draft Staff Report Proposed Rule 2305 – Warehouse Indirect Source Rule. Available at: https://www.aqmd.gov/docs/default-source/planning/fbmsm-docs/pr-2305_sr_2nd-draft_4-7-21_clean.pdf?sfvrsn=8.

2019. South Coast AQMD Air Quality Significance Thresholds. April. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pfdf?sfvrsn=2.

2017. South Coast AQMD Meteorological Data for AERMOD Applications. Available at: https://www.aqmd.gov/home/air-quality/meteorological-data/data-for-aermod.

2016a. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin. February. Available at: http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf.

2016b. Rule 1113, Architectural Coatings. Amended February 5. Available at: http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf?sfvrsn=24.

2009. Mass Rate Localized Significance Thresholds Look-up Tables. October. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2.

2008. Interim GHG Significance Threshold. Available at: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ghg-significance-thresholds/page/2.

2007. Rule 1403, Asbestos Emissions from Demolition/Renovation Activities. Available at: http://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/rule-1403.pdf.

2005. Rule 403, Fugitive Dust. Amended June 3. Available at: http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf?sfvrsn=4.

South Coast Air Quality Management District (SCAQMD; cont.)

2003. 2003 Air Quality Management Plan. Available at: https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp.

2001a. Rule 401, Visible emissions. Amended November 9. Available at: http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-401.pdf?sfvrsn=4.

2001b. Rule 1166, Volatile Organic Compound Emissions from Decontamination of Soil. Available at: http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/rule-1166.pdf.

1993. *CEQA Air Quality Handbook*.

1976. Rule 402, Nuisance. Adopted May 7. Available at: http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-402.pdf?sfvrsn=4.

U.S. Environmental Protection Agency (USEPA). 2023a. Criteria Air Pollutants. Last updated July 20. Available at: https://www.epa.gov/criteria-air-pollutants.

2023b. Learn about Asbestos. Available at: https://www.epa.gov/asbestos/learn-about-asbestos. Accessed September 15.

2023c. Learn about Lead. Available at: https://www.epa.gov/lead/learn-about-lead. Accessed September 15.

2023d. Regulations for Smog, Soot, and Other Air Pollution from Commercial Trucks & Buses. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/regulations-smog-soot-and-other-air-pollution-commercial. Accessed September 15.

2023e. Proposed Endangerment and Cause or Contribute Findings for Greenhouse Gases under the Clean Air Act. Last updated April 25. Available at: https://www.epa.gov/climate-change/endangerment-and-cause-or-contribute-findings-greenhouse-gases-under-section-202a. Accessed September 15.

U.S. Environmental Protection Agency (USEPA) and U.S. Department of Transportation, National Highway Traffic Safety Administration (NHTSA). 2020. The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light. Corrected July 2020. Available at: https://www.govinfo.gov/content/pkg/FR-2020-04-30/pdf/2020-06967.pdf.

Western Regional Climate Center (WRCC). 2022. Period of Record Monthly Climate Summary, Montebello, California (045790). Available at: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca5790. Accessed September 15.

Appendix A

CalEEMod Output

Downey Prologis Project R2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

3. Construction Emissions Details

3.1. Demolition/Site Preparation (2024) - Unmitigated

3.3. Grading/Underground Utilities (2024) - Unmitigated

3.5. Off-Site Driveways & Sidewalks (2024) - Unmitigated

3.7. Building Construction (2024) - Unmitigated

3.9. Building Construction (2025) - Unmitigated

3.11. Paving (2025) - Unmitigated

3.13. Architectural Coating (2025) - Unmitigated

3.15. Off-Site Street Utilities (2024) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Downey Prologis Project R2
Construction Start Date	2/9/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	8.00
Location	33.92950666018294, -118.11954914567177
County	Los Angeles-South Coast
City	Downey
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4855
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.19

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

General Office Building	20.0	1000sqft	0.46	20,000	0.00	—	—	—
Refrigerated Warehouse-No Rail	26.8	1000sqft	0.61	26,785	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	489	1000sqft	10.6	488,900	77,432	—	—	—
Parking Lot	682	1000sqft	15.7	0.00	0.00	—	—	—
Other Asphalt Surfaces	12.4	1000sqft	0.28	12,360	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.69	60.8	47.9	0.18	1.87	77.4	79.2	1.74	9.60	11.3	—	25,111	25,111	1.24	2.73	39.8	25,996
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	65.2	34.2	47.8	0.11	1.22	24.6	25.8	1.13	2.89	3.98	—	18,643	18,643	0.88	1.73	1.02	19,180
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.95	21.4	23.6	0.05	0.73	14.8	15.5	0.68	2.06	2.73	—	7,976	7,976	0.37	0.65	5.90	8,183
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.45	3.91	4.30	0.01	0.13	2.70	2.83	0.12	0.38	0.50	—	1,320	1,320	0.06	0.11	0.98	1,355
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.69	60.8	47.9	0.18	1.87	77.4	79.2	1.74	9.60	11.3	—	25,111	25,111	1.24	2.73	39.8	25,996
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.08	32.6	46.1	0.07	1.22	24.6	25.8	1.13	2.89	3.98	—	11,644	11,644	0.49	0.79	0.56	11,835
2025	65.2	34.2	47.8	0.11	0.99	6.50	7.49	0.90	1.63	2.53	—	18,643	18,643	0.88	1.73	1.02	19,180
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.19	21.4	23.6	0.05	0.73	14.8	15.5	0.68	2.06	2.73	—	7,976	7,976	0.37	0.65	5.90	8,183
2025	7.95	3.95	6.60	0.01	0.12	0.85	0.97	0.11	0.21	0.32	—	2,161	2,161	0.10	0.16	2.02	2,213
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.40	3.91	4.30	0.01	0.13	2.70	2.83	0.12	0.38	0.50	—	1,320	1,320	0.06	0.11	0.98	1,355

2025	1.45	0.72	1.21	< 0.005	0.02	0.15	0.18	0.02	0.04	0.06	—	358	358	0.02	0.03	0.33	366

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.4	26.3	130	0.39	0.61	26.1	26.7	0.58	6.70	7.28	507	46,439	46,945	53.7	3.71	835	50,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.3	27.5	98.0	0.38	0.57	26.1	26.7	0.55	6.70	7.25	507	45,335	45,842	53.7	3.76	717	49,021
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.9	27.9	117	0.38	0.59	26.0	26.6	0.57	6.67	7.24	507	45,672	46,179	53.7	3.76	766	49,408
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.73	5.09	21.3	0.07	0.11	4.74	4.85	0.10	1.22	1.32	83.9	7,562	7,645	8.89	0.62	127	8,180

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.0	23.2	104	0.37	0.35	26.1	26.5	0.33	6.70	7.03	—	38,578	38,578	1.69	3.08	121	39,659
Area	16.2	0.20	23.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	98.0	98.0	< 0.005	< 0.005	—	98.4
Energy	0.16	2.85	2.39	0.02	0.22	—	0.22	0.22	—	0.22	—	6,964	6,964	0.64	0.05	—	6,994

Water	—	—	—	—	—	—	—	—	—	—	235	798	1,034	24.2	0.58	—	1,812
Waste	—	—	—	—	—	—	—	—	—	—	271	0.00	271	27.1	0.00	—	949
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	714	714
Total	27.4	26.3	130	0.39	0.61	26.1	26.7	0.58	6.70	7.28	507	46,439	46,945	53.7	3.71	835	50,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.9	24.6	95.6	0.36	0.35	26.1	26.5	0.33	6.70	7.03	—	37,573	37,573	1.74	3.13	3.14	38,551
Area	12.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	2.85	2.39	0.02	0.22	—	0.22	0.22	—	0.22	—	6,964	6,964	0.64	0.05	—	6,994
Water	—	—	—	—	—	—	—	—	—	—	235	798	1,034	24.2	0.58	—	1,812
Waste	—	—	—	—	—	—	—	—	—	—	271	0.00	271	27.1	0.00	—	949
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	714	714
Total	23.3	27.5	98.0	0.38	0.57	26.1	26.7	0.55	6.70	7.25	507	45,335	45,842	53.7	3.76	717	49,021
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.8	24.9	98.0	0.36	0.35	26.0	26.3	0.33	6.67	7.00	—	37,843	37,843	1.73	3.13	52.3	38,871
Area	14.9	0.14	16.3	< 0.005	0.03	—	0.03	0.02	—	0.02	—	67.1	67.1	< 0.005	< 0.005	—	67.4
Energy	0.16	2.85	2.39	0.02	0.22	—	0.22	0.22	—	0.22	—	6,964	6,964	0.64	0.05	—	6,994
Water	—	—	—	—	—	—	—	—	—	—	235	798	1,034	24.2	0.58	—	1,812
Waste	—	—	—	—	—	—	—	—	—	—	271	0.00	271	27.1	0.00	—	949
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	714	714
Total	25.9	27.9	117	0.38	0.59	26.0	26.6	0.57	6.67	7.24	507	45,672	46,179	53.7	3.76	766	49,408
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.97	4.55	17.9	0.07	0.06	4.74	4.81	0.06	1.22	1.28	—	6,265	6,265	0.29	0.52	8.66	6,436
Area	2.72	0.03	2.98	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.1	11.1	< 0.005	< 0.005	—	11.2
Energy	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	1,153	1,153	0.11	0.01	—	1,158
Water	—	—	—	—	—	—	—	—	—	—	39.0	132	171	4.01	0.10	—	300
Waste	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	4.73	5.09	21.3	0.07	0.11	4.74	4.85	0.10	1.22	1.32	83.9	7,562	7,645	8.89	0.62	127	8,180

3. Construction Emissions Details

3.1. Demolition/Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85	26.4	23.2	0.04	1.12	—	1.12	1.03	—	1.03	—	4,090	4,090	0.17	0.03	—	4,104
Demolition	—	—	—	—	—	3.65	3.65	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85	26.4	23.2	0.04	1.12	—	1.12	1.03	—	1.03	—	4,090	4,090	0.17	0.03	—	4,104
Demolition	—	—	—	—	—	3.65	3.65	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	5.43	4.78	0.01	0.23	—	0.23	0.21	—	0.21	—	840	840	0.03	0.01	—	843

Demolition	—	—	—	—	—	0.75	0.75	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.99	0.87	< 0.005	0.04	—	0.04	0.04	—	0.04	—	139	139	0.01	< 0.005	—	140
Demolition	—	—	—	—	—	0.14	0.14	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	1.32	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	247	247	0.01	0.01	0.97	251
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	5.86	2.25	0.03	0.06	20.8	20.8	0.06	2.29	2.34	—	4,681	4,681	0.25	0.75	10.8	4,922
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.12	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	234	234	0.01	0.01	0.03	237
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	6.08	2.25	0.03	0.06	20.8	20.8	0.06	2.29	2.34	—	4,683	4,683	0.25	0.75	0.28	4,914
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.8	48.8	< 0.005	< 0.005	0.09	49.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.27	0.46	0.01	0.01	4.18	4.19	0.01	0.46	0.47	—	962	962	0.05	0.15	0.95	1,010
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.09	8.09	< 0.005	< 0.005	0.01	8.20

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.23	0.08	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.09	—	159	159	0.01	0.03	0.16	167

3.3. Grading/Underground Utilities (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.75	35.8	31.7	0.07	1.50	—	1.50	1.38	—	1.38	—	7,263	7,263	0.29	0.06	—	7,288
Dust From Material Movement	—	—	—	—	—	3.62	3.62	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	3.93	3.47	0.01	0.16	—	0.16	0.15	—	0.15	—	796	796	0.03	0.01	—	799
Dust From Material Movement	—	—	—	—	—	0.40	0.40	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	0.72	0.63	< 0.005	0.03	—	0.03	0.03	—	0.03	—	132	132	0.01	< 0.005	—	132
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.11	1.70	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	318	318	0.01	0.01	1.25	322
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.36	20.7	7.96	0.11	0.21	73.3	73.5	0.21	8.07	8.27	—	16,524	16,524	0.89	2.65	38.0	17,374
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.5	33.5	< 0.005	< 0.005	0.06	33.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.39	0.86	0.01	0.02	7.87	7.89	0.02	0.87	0.89	—	1,811	1,811	0.10	0.29	1.80	1,902
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.54	5.54	< 0.005	< 0.005	0.01	5.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.44	0.16	< 0.005	< 0.005	1.44	1.44	< 0.005	0.16	0.16	—	300	300	0.02	0.05	0.30	315

3.5. Off-Site Driveways & Sidewalks (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	14.5	14.3	0.02	0.63	—	0.63	0.58	—	0.58	—	2,242	2,242	0.09	0.02	—	2,250
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.47	1.45	< 0.005	0.06	—	0.06	0.06	—	0.06	—	227	227	0.01	< 0.005	—	228
Dust From Material Movement	—	—	—	—	—	0.26	0.26	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.27	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.6	37.6	< 0.005	< 0.005	—	37.8
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.80	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	167	167	0.01	0.01	0.02	169
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.28	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	219	219	0.01	0.04	0.01	230
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.2	17.2	< 0.005	< 0.005	0.03	17.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	0.02	23.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.85	2.85	< 0.005	< 0.005	0.01	2.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.68	3.68	< 0.005	< 0.005	< 0.005	3.86

3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.43	12.8	14.6	0.03	0.55	—	0.55	0.51	—	0.51	—	3,063	3,063	0.12	0.02	—	3,073
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.43	12.8	14.6	0.03	0.55	—	0.55	0.51	—	0.51	—	3,063	3,063	0.12	0.02	—	3,073
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.15	4.75	0.01	0.18	—	0.18	0.17	—	0.17	—	995	995	0.04	0.01	—	998
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.76	0.87	< 0.005	0.03	—	0.03	0.03	—	0.03	—	165	165	0.01	< 0.005	—	165
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	1.09	17.2	0.00	0.00	2.98	2.98	0.00	0.70	0.70	—	3,222	3,222	0.13	0.11	12.7	3,270
Vendor	0.09	3.41	1.67	0.02	0.04	0.77	0.81	0.04	0.21	0.25	—	2,898	2,898	0.12	0.40	7.86	3,028
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.01	1.29	14.5	0.00	0.00	2.98	2.98	0.00	0.70	0.70	—	3,053	3,053	0.14	0.11	0.33	3,091
Vendor	0.09	3.55	1.71	0.02	0.04	0.77	0.81	0.04	0.21	0.25	—	2,899	2,899	0.12	0.40	0.20	3,021
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.33	0.42	4.97	0.00	0.00	0.96	0.96	0.00	0.23	0.23	—	1,007	1,007	0.04	0.04	1.78	1,021
Vendor	0.03	1.17	0.55	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	942	942	0.04	0.13	1.10	982
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.08	0.91	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	167	167	0.01	0.01	0.29	169
Vendor	0.01	0.21	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	156	156	0.01	0.02	0.18	163
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	11.8	14.5	0.03	0.48	—	0.48	0.44	—	0.44	—	3,064	3,064	0.12	0.02	—	3,074
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	2.08	2.56	0.01	0.08	—	0.08	0.08	—	0.08	—	540	540	0.02	< 0.005	—	541
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.38	0.47	< 0.005	0.02	—	0.02	0.01	—	0.01	—	89.3	89.3	< 0.005	< 0.005	—	89.6

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	1.10	13.5	0.00	0.00	2.98	2.98	0.00	0.70	0.70	—	2,990	2,990	0.14	0.11	0.30	3,028
Vendor	0.08	3.38	1.60	0.02	0.04	0.77	0.81	0.02	0.21	0.23	—	2,851	2,851	0.12	0.40	0.20	2,973
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.21	2.49	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	535	535	0.02	0.02	0.88	542
Vendor	0.01	0.60	0.28	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	502	502	0.02	0.07	0.60	524
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	88.5	88.5	< 0.005	< 0.005	0.15	89.7
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	83.1	83.1	< 0.005	0.01	0.10	86.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	2.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.41	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	197	197	0.01	0.01	0.02	199
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	9.30	3.52	0.05	0.09	1.95	2.05	0.09	0.53	0.63	—	7,298	7,298	0.40	1.14	0.44	7,649
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.02	11.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.52	0.19	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	—	400	400	0.02	0.06	0.40	419
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.81	1.81	< 0.005	< 0.005	< 0.005	1.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	66.2	66.2	< 0.005	0.01	0.07	69.4

3.13. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	59.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.5	16.5	< 0.005	< 0.005	—	16.5
Architectural Coatings	7.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.73	2.73	< 0.005	< 0.005	—	2.73
Architectural Coatings	1.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.22	2.69	0.00	0.00	0.60	0.60	0.00	0.14	0.14	—	598	598	0.03	0.02	0.06	606
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	74.8	74.8	< 0.005	< 0.005	0.12	75.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.4	12.4	< 0.005	< 0.005	0.02	12.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Off-Site Street Utilities (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	4.09	5.86	0.01	0.16	—	0.16	0.15	—	0.15	—	864	864	0.04	0.01	—	867
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	4.09	5.86	0.01	0.16	—	0.16	0.15	—	0.15	—	864	864	0.04	0.01	—	867
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.12	1.60	< 0.005	0.04	—	0.04	0.04	—	0.04	—	237	237	0.01	< 0.005	—	238
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.75	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	141	141	0.01	< 0.005	0.56	143

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.06	0.64	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	134	134	0.01	< 0.005	0.01	135
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	37.2	37.2	< 0.005	< 0.005	0.07	37.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.16	6.16	< 0.005	< 0.005	0.01	6.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	10.7	8.42	97.9	0.24	0.15	21.7	21.9	0.14	5.52	5.66	—	24,072	24,072	1.11	0.92	81.4	24,457
Refrigerated Warehouse-No Rail	0.05	3.52	1.29	0.03	0.05	0.91	0.96	0.04	0.24	0.29	—	3,269	3,269	0.15	0.51	7.64	3,432
Unrefrigerated Warehouse-No Rail	0.24	11.3	4.57	0.10	0.15	3.49	3.64	0.15	0.94	1.08	—	11,238	11,238	0.43	1.64	32.2	11,770
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	11.0	23.2	104	0.37	0.35	26.1	26.5	0.33	6.70	7.03	—	38,578	38,578	1.69	3.08	121	39,659
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	10.6	9.22	89.7	0.23	0.15	21.7	21.9	0.14	5.52	5.66	—	23,064	23,064	1.15	0.97	2.11	23,385
Refrigerated Warehouse-No Rail	0.05	3.65	1.30	0.03	0.05	0.91	0.96	0.04	0.24	0.29	—	3,269	3,269	0.15	0.51	0.20	3,425
Unrefrigerated Warehouse-No Rail	0.24	11.7	4.58	0.10	0.15	3.49	3.64	0.15	0.94	1.08	—	11,239	11,239	0.43	1.65	0.84	11,741
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	10.9	24.6	95.6	0.36	0.35	26.1	26.5	0.33	6.70	7.03	—	37,573	37,573	1.74	3.13	3.14	38,551
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	1.92	1.70	16.8	0.04	0.03	3.94	3.97	0.03	1.00	1.03	—	3,863	3,863	0.19	0.16	5.82	3,922
Refrigerated Warehouse-No Rail	0.01	0.68	0.24	0.01	0.01	0.17	0.17	0.01	0.04	0.05	—	541	541	0.02	0.08	0.55	567
Unrefrigerated Warehouse-No Rail	0.04	2.17	0.83	0.02	0.03	0.63	0.66	0.03	0.17	0.20	—	1,861	1,861	0.07	0.27	2.30	1,946
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.97	4.55	17.9	0.07	0.06	4.74	4.81	0.06	1.22	1.28	—	6,265	6,265	0.29	0.52	8.66	6,436

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	338	338	0.03	< 0.005	—	340
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	491	0.05	0.01	—	494
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,170	2,170	0.21	0.03	—	2,183
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	567	567	0.05	0.01	—	570
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3,566	3,566	0.34	0.04	—	3,587
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	338	338	0.03	< 0.005	—	340
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	491	0.05	0.01	—	494
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,170	2,170	0.21	0.03	—	2,183
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	567	567	0.05	0.01	—	570

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3,566	3,566	0.34	0.04	—	3,587
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	56.0	56.0	0.01	< 0.005	—	56.3
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	81.3	0.01	< 0.005	—	81.8
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	359	359	0.03	< 0.005	—	361
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	93.8	93.8	0.01	< 0.005	—	94.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	590	590	0.06	0.01	—	594

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	0.14	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	162	162	0.01	< 0.005	—	163

Refrigerat Warehouse-No Rail	0.01	0.18	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	215	215	0.02	< 0.005	—	216
Unrefrigerated Warehouse-No Rail	0.14	2.53	2.13	0.02	0.19	—	0.19	0.19	—	0.19	—	3,020	3,020	0.27	0.01	—	3,029
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	2.85	2.39	0.02	0.22	—	0.22	0.22	—	0.22	—	3,398	3,398	0.30	0.01	—	3,407
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	0.14	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	162	162	0.01	< 0.005	—	163
Refrigerated Warehouse-No Rail	0.01	0.18	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	215	215	0.02	< 0.005	—	216
Unrefrigerated Warehouse-No Rail	0.14	2.53	2.13	0.02	0.19	—	0.19	0.19	—	0.19	—	3,020	3,020	0.27	0.01	—	3,029
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	2.85	2.39	0.02	0.22	—	0.22	0.22	—	0.22	—	3,398	3,398	0.30	0.01	—	3,407

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.9	26.9	< 0.005	< 0.005	—	27.0
Refrigerated Warehouse-No Rail	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.6	35.6	< 0.005	< 0.005	—	35.7
Unrefrigerated Warehouse-No Rail	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	—	500	500	0.04	< 0.005	—	501
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	563	563	0.05	< 0.005	—	564

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscap Equipment	3.91	0.20	23.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	98.0	98.0	< 0.005	< 0.005	—	98.4
Total	16.2	0.20	23.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	98.0	98.0	< 0.005	< 0.005	—	98.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	12.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.49	0.03	2.98	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.1	11.1	< 0.005	< 0.005	—	11.2
Total	2.72	0.03	2.98	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.1	11.1	< 0.005	< 0.005	—	11.2

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	6.81	23.0	29.8	0.70	0.02	—	52.3
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	11.9	40.0	51.9	1.22	0.03	—	91.1
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	217	735	952	22.3	0.54	—	1,669
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	235	798	1,034	24.2	0.58	—	1,812
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	6.81	23.0	29.8	0.70	0.02	—	52.3
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	11.9	40.0	51.9	1.22	0.03	—	91.1
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	217	735	952	22.3	0.54	—	1,669

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	235	798	1,034	24.2	0.58	—	1,812
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	1.13	3.80	4.93	0.12	< 0.005	—	8.66
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1.97	6.62	8.59	0.20	< 0.005	—	15.1
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	35.9	122	158	3.69	0.09	—	276
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	39.0	132	171	4.01	0.10	—	300

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	10.0	0.00	10.0	1.00	0.00	—	35.1
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	13.6	0.00	13.6	1.36	0.00	—	47.5
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	0.00	248	24.8	0.00	—	867
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	271	0.00	271	27.1	0.00	—	949
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	10.0	0.00	10.0	1.00	0.00	—	35.1
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	13.6	0.00	13.6	1.36	0.00	—	47.5
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	0.00	248	24.8	0.00	—	867

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	271	0.00	271	27.1	0.00	—	949
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	1.66	0.00	1.66	0.17	0.00	—	5.81
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	2.25	0.00	2.25	0.22	0.00	—	7.86
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.0	0.00	41.0	4.10	0.00	—	143
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	714	714
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	714	714
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	714	714
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	714	714
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequeste	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition/Site Preparation	Demolition	2/9/2024	5/23/2024	5.00	75.0	—
Grading/Underground Utilities	Grading	5/24/2024	7/18/2024	5.00	40.0	—
Off-Site Driveways & Sidewalks	Grading	10/23/2024	12/12/2024	5.00	37.0	—
Building Construction	Building Construction	7/19/2024	3/31/2025	5.00	182	—
Paving	Paving	2/7/2025	3/6/2025	5.00	20.0	—
Architectural Coating	Architectural Coating	1/28/2025	3/31/2025	5.00	45.0	—
Off-Site Street Utilities	Trenching	6/3/2024	10/18/2024	5.00	100	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition/Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition/Site Preparation	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition/Site Preparation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition/Site Preparation	Off-Highway Trucks	Diesel	Average	1.00	4.00	376	0.38
Grading/Underground Utilities	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading/Underground Utilities	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading/Underground Utilities	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

Grading/Underground Utilities	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading/Underground Utilities	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading/Underground Utilities	Off-Highway Trucks	Diesel	Average	1.00	4.00	376	0.38
Off-Site Driveways & Sidewalks	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Off-Site Driveways & Sidewalks	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Off-Site Driveways & Sidewalks	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Off-Highway Trucks	Diesel	Average	1.00	4.00	376	0.38
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Off-Site Street Utilities	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Off-Site Street Utilities	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition/Site Preparation	—	—	—	—
Demolition/Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Demolition/Site Preparation	Vendor	—	10.2	HHDT,MHDT
Demolition/Site Preparation	Hauling	66.4	20.0	HHDT
Demolition/Site Preparation	Onsite truck	—	—	HHDT
Grading/Underground Utilities	—	—	—	—
Grading/Underground Utilities	Worker	22.5	18.5	LDA,LDT1,LDT2
Grading/Underground Utilities	Vendor	—	10.2	HHDT,MHDT
Grading/Underground Utilities	Hauling	234	20.0	HHDT
Grading/Underground Utilities	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	228	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	89.8	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	105	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	45.6	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Off-Site Driveways & Sidewalks	—	—	—	—

Off-Site Driveways & Sidewalks	Worker	12.5	18.5	LDA,LDT1,LDT2
Off-Site Driveways & Sidewalks	Vendor	—	10.2	HHDT,MHDT
Off-Site Driveways & Sidewalks	Hauling	3.11	20.0	HHDT
Off-Site Driveways & Sidewalks	Onsite truck	—	—	HHDT
Off-Site Street Utilities	—	—	—	—
Off-Site Street Utilities	Worker	10.0	18.5	LDA,LDT1,LDT2
Off-Site Street Utilities	Vendor	—	10.2	HHDT,MHDT
Off-Site Street Utilities	Hauling	0.00	20.0	HHDT
Off-Site Street Utilities	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	803,528	267,843	40,926

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)

Demolition/Site Preparation	0.00	0.00	0.00	433,000	—
Grading/Underground Utilities	—	75,000	120	0.00	—
Off-Site Driveways & Sidewalks	460	460	18.5	0.00	—
Paving	0.00	0.00	0.00	0.00	15.9

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Refrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	15.7	100%
Other Asphalt Surfaces	0.28	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	3,211	3,211	3,211	1,172,015	30,638	30,638	30,638	11,182,822
Refrigerated Warehouse-No Rail	24.9	24.9	24.9	9,092	996	996	996	363,687
Unrefrigerated Warehouse-No Rail	97.8	97.8	97.8	35,690	3,911	3,911	3,911	1,427,588
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	803,528	267,843	40,926

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	356,406	346	0.0330	0.0040	506,929
Refrigerated Warehouse-No Rail	517,970	346	0.0330	0.0040	671,073
Unrefrigerated Warehouse-No Rail	2,288,229	346	0.0330	0.0040	9,424,108
Parking Lot	597,513	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	3,554,675	0.00
Refrigerated Warehouse-No Rail	6,194,031	0.00
Unrefrigerated Warehouse-No Rail	113,058,125	1,085,952
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	18.6	—

Refrigerated Warehouse-No Rail	25.2	—
Unrefrigerated Warehouse-No Rail	460	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	10.4	annual days of extreme heat

Extreme Precipitation	4.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	47.0
AQ-PM	87.9
AQ-DPM	86.1
Drinking Water	53.1
Lead Risk Housing	70.1
Pesticides	53.1

Toxic Releases	91.9
Traffic	66.3
Effect Indicators	—
CleanUp Sites	61.4
Groundwater	86.6
Haz Waste Facilities/Generators	88.5
Impaired Water Bodies	33.2
Solid Waste	78.1
Sensitive Population	—
Asthma	30.8
Cardio-vascular	58.9
Low Birth Weights	76.8
Socioeconomic Factor Indicators	—
Education	69.6
Housing	69.9
Linguistic	63.3
Poverty	70.7
Unemployment	33.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	22.78968305
Employed	58.03926601
Median HI	26.26716284
Education	—

Bachelor's or higher	12.6780444
High school enrollment	100
Preschool enrollment	43.42358527
Transportation	—
Auto Access	41.51161299
Active commuting	71.37174387
Social	—
2-parent households	12.72937251
Voting	39.6894649
Neighborhood	—
Alcohol availability	47.50417041
Park access	34.26151675
Retail density	39.97176954
Supermarket access	30.12960349
Tree canopy	33.78673168
Housing	—
Homeownership	2.887206467
Housing habitability	7.76337739
Low-inc homeowner severe housing cost burden	49.89092776
Low-inc renter severe housing cost burden	33.87655588
Uncrowded housing	10.70191197
Health Outcomes	—
Insured adults	16.52765302
Arthritis	90.5
Asthma ER Admissions	69.9
High Blood Pressure	92.9
Cancer (excluding skin)	94.8

Asthma	34.7
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	44.3
Life Expectancy at Birth	64.6
Cognitively Disabled	58.3
Physically Disabled	69.8
Heart Attack ER Admissions	74.7
Mental Health Not Good	17.8
Chronic Kidney Disease	64.9
Obesity	16.6
Pedestrian Injuries	87.4
Physical Health Not Good	25.2
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	35.4
Current Smoker	19.7
No Leisure Time for Physical Activity	24.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.0
Elderly	88.2
English Speaking	26.3
Foreign-born	74.9
Outdoor Workers	38.4
Climate Change Adaptive Capacity	—

Impervious Surface Cover	2.5
Traffic Density	56.6
Traffic Access	67.0
Other Indices	—
Hardship	81.5
Other Decision Support	—
2016 Voting	11.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	89.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Land Use	Building and lot areas per Site Plan and project description. Unrefrigerated warehouse SF includes 25 KSF of mezzanine space. Parking lot = all other impervious spaces (parking, loading dock areas, driveways, sidewalks). Other Asphalt Surfaces = Off-site street improvements per project Street Improvements plan.
Construction: Construction Phases	Construction schedule per project applicant.
Construction: Off-Road Equipment	Off-Highway truck = water truck used for dust control up to 4 hours per day, other off-road equipment per defaults.
Construction: Trips and VMT	Estimated 1,053 loads (2,106 one-way trips) of aggregate/asphalt/concrete imported during paving.
Construction: Architectural Coatings	Building envelope and flat coating VOC limit 50 g/l per SCAQMD Rule 1113.
Operations: Vehicle Data	Trip generation per traffic study. Refrigerated warehouse truck% per SCAQMD High Cube Study. All passenger car trips assigned to the office land use. All truck trips assigned to the warehouse land uses, 40 miles per SCAQMD.
Operations: Fleet Mix	Refrigerated warehouse truck fleet mix from SCAQMD High Cube Study. Unrefrigerated warehouse truck fleet mix from traffic study.
Operations: Architectural Coatings	Building envelope and flat coating VOC limit 50 g/l per SCAQMD Rule 1113.
Construction: On-Road Fugitive Dust	0.2 miles of each haul trip for demolition and grading assumed to be on unpaved on-site access roads.

Downey Prologis Existing R2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Downey Prologis Existing R2
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	8.00
Location	33.92906578780298, -118.1193666234409
County	Los Angeles-South Coast
City	Downey
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4855
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.19

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	16.0	1000sqft	0.37	16,000	9,000	—	—	—

Industrial Park	417	1000sqft	9.57	417,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.3	18.2	33.3	74.0	0.32	0.60	15.5	16.1	0.57	4.04	4.61	477	44,211	44,688	50.7	4.20	205	47,411
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.89	15.0	34.5	52.1	0.32	0.56	15.5	16.1	0.55	4.04	4.59	477	43,741	44,218	50.7	4.22	111	46,855
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.18	17.1	34.8	65.9	0.32	0.59	15.5	16.0	0.56	4.02	4.58	477	43,896	44,373	50.7	4.22	150	47,049
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.67	3.12	6.36	12.0	0.06	0.11	2.82	2.93	0.10	0.73	0.84	79.0	7,267	7,346	8.39	0.70	24.8	7,790

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.66	5.11	30.1	52.7	0.31	0.34	15.5	15.9	0.32	4.04	4.36	—	32,656	32,656	1.45	3.64	96.0	33,872
Area	3.35	12.9	0.16	18.8	< 0.005	0.03	—	0.03	0.03	—	0.03	—	77.4	77.4	< 0.005	< 0.005	—	77.7
Energy	0.32	0.16	2.95	2.48	0.02	0.22	—	0.22	0.22	—	0.22	—	10,836	10,836	1.01	0.09	—	10,888
Water	—	—	—	—	—	—	—	—	—	—	—	190	642	832	19.6	0.47	—	1,461
Waste	—	—	—	—	—	—	—	—	—	—	—	287	0.00	287	28.7	0.00	—	1,003
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	109
Total	10.3	18.2	33.3	74.0	0.32	0.60	15.5	16.1	0.57	4.04	4.61	477	44,211	44,688	50.7	4.20	205	47,411
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.57	5.02	31.6	49.6	0.30	0.34	15.5	15.9	0.32	4.04	4.36	—	32,264	32,264	1.47	3.66	2.49	33,394
Area	—	9.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.32	0.16	2.95	2.48	0.02	0.22	—	0.22	0.22	—	0.22	—	10,836	10,836	1.01	0.09	—	10,888
Water	—	—	—	—	—	—	—	—	—	—	—	190	642	832	19.6	0.47	—	1,461
Waste	—	—	—	—	—	—	—	—	—	—	—	287	0.00	287	28.7	0.00	—	1,003
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	109
Total	6.89	15.0	34.5	52.1	0.32	0.56	15.5	16.1	0.55	4.04	4.59	477	43,741	44,218	50.7	4.22	111	46,855
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.56	5.01	31.8	50.5	0.30	0.34	15.5	15.8	0.32	4.02	4.34	—	32,365	32,365	1.47	3.66	41.5	33,534
Area	2.29	11.9	0.11	12.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	53.0	53.0	< 0.005	< 0.005	—	53.2
Energy	0.32	0.16	2.95	2.48	0.02	0.22	—	0.22	0.22	—	0.22	—	10,836	10,836	1.01	0.09	—	10,888
Water	—	—	—	—	—	—	—	—	—	—	—	190	642	832	19.6	0.47	—	1,461
Waste	—	—	—	—	—	—	—	—	—	—	—	287	0.00	287	28.7	0.00	—	1,003
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	109
Total	9.18	17.1	34.8	65.9	0.32	0.59	15.5	16.0	0.56	4.02	4.58	477	43,896	44,373	50.7	4.22	150	47,049

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.20	0.91	5.80	9.21	0.06	0.06	2.82	2.88	0.06	0.73	0.79	—	5,358	5,358	0.24	0.61	6.86	5,552
Area	0.42	2.18	0.02	2.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.78	8.78	< 0.005	< 0.005	—	8.81
Energy	0.06	0.03	0.54	0.45	< 0.005	0.04	—	0.04	0.04	—	0.04	—	1,794	1,794	0.17	0.02	—	1,803
Water	—	—	—	—	—	—	—	—	—	—	—	31.5	106	138	3.24	0.08	—	242
Waste	—	—	—	—	—	—	—	—	—	—	—	47.5	0.00	47.5	4.74	0.00	—	166
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.0	18.0
Total	1.67	3.12	6.36	12.0	0.06	0.11	2.82	2.93	0.10	0.73	0.84	79.0	7,267	7,346	8.39	0.70	24.8	7,790

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	4.78	4.32	3.39	39.4	0.09	0.06	8.74	8.80	0.06	2.22	2.27	—	9,679	9,679	0.45	0.37	32.7	9,833
Industrial Park	1.87	0.79	26.8	13.3	0.21	0.28	6.79	7.07	0.27	1.82	2.09	—	22,977	22,977	1.01	3.27	63.3	24,039
Total	6.66	5.11	30.1	52.7	0.31	0.34	15.5	15.9	0.32	4.04	4.36	—	32,656	32,656	1.45	3.64	96.0	33,872
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	4.73	4.26	3.71	36.1	0.09	0.06	8.74	8.80	0.06	2.22	2.27	—	9,273	9,273	0.46	0.39	0.85	9,402
Industrial Park	1.83	0.76	27.9	13.6	0.21	0.28	6.79	7.07	0.27	1.82	2.09	—	22,990	22,990	1.01	3.27	1.64	23,992
Total	6.57	5.02	31.6	49.6	0.30	0.34	15.5	15.9	0.32	4.04	4.36	—	32,264	32,264	1.47	3.66	2.49	33,394
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.86	0.77	0.68	6.76	0.02	0.01	1.59	1.60	0.01	0.40	0.41	—	1,553	1,553	0.08	0.06	2.34	1,577
Industrial Park	0.34	0.14	5.12	2.45	0.04	0.05	1.23	1.29	0.05	0.33	0.38	—	3,805	3,805	0.17	0.54	4.53	3,975
Total	1.20	0.91	5.80	9.21	0.06	0.06	2.82	2.88	0.06	0.73	0.79	—	5,358	5,358	0.24	0.61	6.86	5,552

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	270	270	0.03	< 0.005	—	272
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,048	7,048	0.67	0.08	—	7,089
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,319	7,319	0.70	0.08	—	7,361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	270	270	0.03	< 0.005	—	272
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,048	7,048	0.67	0.08	—	7,089
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,319	7,319	0.70	0.08	—	7,361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	44.8	44.8	< 0.005	< 0.005	—	45.0
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,167	1,167	0.11	0.01	—	1,174
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,212	1,212	0.12	0.01	—	1,219

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	130	130	0.01	< 0.005	—	130
Industrial Park	0.31	0.16	2.84	2.38	0.02	0.22	—	0.22	0.22	—	0.22	—	3,387	3,387	0.30	0.01	—	3,397
Total	0.32	0.16	2.95	2.48	0.02	0.22	—	0.22	0.22	—	0.22	—	3,517	3,517	0.31	0.01	—	3,527
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	130	130	0.01	< 0.005	—	130

Industrial Park	0.31	0.16	2.84	2.38	0.02	0.22	—	0.22	0.22	—	0.22	—	3,387	3,387	0.30	0.01	—	3,397
Total	0.32	0.16	2.95	2.48	0.02	0.22	—	0.22	0.22	—	0.22	—	3,517	3,517	0.31	0.01	—	3,527
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.6
Industrial Park	0.06	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	561	561	0.05	< 0.005	—	562
Total	0.06	0.03	0.54	0.45	< 0.005	0.04	—	0.04	0.04	—	0.04	—	582	582	0.05	< 0.005	—	584

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.35	3.09	0.16	18.8	< 0.005	0.03	—	0.03	0.03	—	0.03	—	77.4	77.4	< 0.005	< 0.005	—	77.7
Total	3.35	12.9	0.16	18.8	< 0.005	0.03	—	0.03	0.03	—	0.03	—	77.4	77.4	< 0.005	< 0.005	—	77.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	—	9.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	9.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.42	0.39	0.02	2.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.78	8.78	< 0.005	< 0.005	—	8.81
Total	0.42	2.18	0.02	2.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.78	8.78	< 0.005	< 0.005	—	8.81

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.45	19.0	24.4	0.56	0.01	—	42.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	185	623	807	19.0	0.46	—	1,419

Total	—	—	—	—	—	—	—	—	—	—	—	190	642	832	19.6	0.47	—	1,461
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.45	19.0	24.4	0.56	0.01	—	42.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	185	623	807	19.0	0.46	—	1,419
Total	—	—	—	—	—	—	—	—	—	—	—	190	642	832	19.6	0.47	—	1,461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.90	3.15	4.05	0.09	< 0.005	—	7.03
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	30.6	103	134	3.15	0.08	—	235
Total	—	—	—	—	—	—	—	—	—	—	—	31.5	106	138	3.24	0.08	—	242

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8.02	0.00	8.02	0.80	0.00	—	28.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	279	0.00	279	27.9	0.00	—	975
Total	—	—	—	—	—	—	—	—	—	—	—	287	0.00	287	28.7	0.00	—	1,003

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8.02	0.00	8.02	0.80	0.00	—	28.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	279	0.00	279	27.9	0.00	—	975
Total	—	—	—	—	—	—	—	—	—	—	—	287	0.00	287	28.7	0.00	—	1,003
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.33	0.00	1.33	0.13	0.00	—	4.65
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	46.1	0.00	46.1	4.61	0.00	—	161
Total	—	—	—	—	—	—	—	—	—	—	—	47.5	0.00	47.5	4.74	0.00	—	166

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	109
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	109

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	109
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	109
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.0	18.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.0	18.0

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	1,291	1,291	1,291	471,230	12,319	12,319	12,319	4,496,254
Industrial Park	817	817	817	298,322	7,798	7,798	7,798	2,846,448

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	649,500	216,500	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	285,125	346	0.0330	0.0040	405,543
Industrial Park	7,431,059	346	0.0330	0.0040	10,569,477

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	2,843,740	126,221
Industrial Park	96,431,250	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	14.9	—
Industrial Park	517	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	10.4	annual days of extreme heat
Extreme Precipitation	4.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	0	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	47.0
AQ-PM	87.9
AQ-DPM	86.1
Drinking Water	53.1

Lead Risk Housing	70.1
Pesticides	53.1
Toxic Releases	91.9
Traffic	66.3
Effect Indicators	—
CleanUp Sites	61.4
Groundwater	86.6
Haz Waste Facilities/Generators	88.5
Impaired Water Bodies	33.2
Solid Waste	78.1
Sensitive Population	—
Asthma	30.8
Cardio-vascular	58.9
Low Birth Weights	76.8
Socioeconomic Factor Indicators	—
Education	69.6
Housing	69.9
Linguistic	63.3
Poverty	70.7
Unemployment	33.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	22.78968305
Employed	58.03926601

Median HI	26.26716284
Education	—
Bachelor's or higher	12.6780444
High school enrollment	100
Preschool enrollment	43.42358527
Transportation	—
Auto Access	41.51161299
Active commuting	71.37174387
Social	—
2-parent households	12.72937251
Voting	39.6894649
Neighborhood	—
Alcohol availability	47.50417041
Park access	34.26151675
Retail density	39.97176954
Supermarket access	30.12960349
Tree canopy	33.78673168
Housing	—
Homeownership	2.887206467
Housing habitability	7.76337739
Low-inc homeowner severe housing cost burden	49.89092776
Low-inc renter severe housing cost burden	33.87655588
Uncrowded housing	10.70191197
Health Outcomes	—
Insured adults	16.52765302
Arthritis	90.5
Asthma ER Admissions	69.9

High Blood Pressure	92.9
Cancer (excluding skin)	94.8
Asthma	34.7
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	44.3
Life Expectancy at Birth	64.6
Cognitively Disabled	58.3
Physically Disabled	69.8
Heart Attack ER Admissions	74.7
Mental Health Not Good	17.8
Chronic Kidney Disease	64.9
Obesity	16.6
Pedestrian Injuries	87.4
Physical Health Not Good	25.2
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	35.4
Current Smoker	19.7
No Leisure Time for Physical Activity	24.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.0
Elderly	88.2
English Speaking	26.3
Foreign-born	74.9

Outdoor Workers	38.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	2.5
Traffic Density	56.6
Traffic Access	67.0
Other Indices	—
Hardship	81.5
Other Decision Support	—
2016 Voting	11.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	89.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trips generation per traffic study, passenger car trips assigned to office land use and truck trips assigned to industrial land use.
Operations: Fleet Mix	Truck trip fleet mix per traffic study.
Operations: Architectural Coatings	Building envelope and flat coating VOC limit 50 g/l per SCAQMD Rule 1113.

Appendix B

HRA Modeling

Prologis Stewart and Gray Road Warehouse Construction Period 1 HRA DPM Calculations

On-Site DPM Emissions (AERMOD Source = CONST)

Source	Workdays	Year	Speed (mph)	Distance (miles)	Emissions Factor (g/mile)	Peak Loads per Hour	Total Loads	Max Daily (lbs)	Max Hour (lbs)	Annual (lbs)
Equipment Demolition/Site Preparation	75	2024	-	-	-	-	-	1.116	0.12400	83.72000
Equipment Grading/Underground Utilities	40	2024	-	-	-	-	-	1.504	0.16711	60.15000
Haul Truck Idling		2024	5	0.415	1.561E-02	13	11,865	-	0.08424	76.88592
								Source Input	**0.25135**	**220.75592**

Hall Road Haul Route DPM Emissions (AERMOD Source = HALL1)

Source	Workdays	Year	Speed (mph)	Distance (miles)	Emissions Factor (g/mile)	Peak Trips per Hour	Total Trips	Max Hour (lbs)	Annual (lbs)
Haul Trucks Demolition/Site Preparation		2024	35	0.489	0.008812614	4	2490	0.01724	10.73033
Haul Trucks Grading/Underground Utilities		2024	35	0.489	0.008812614	13	4688	0.05602	20.20232
							Source Input	**0.056**	**30.933**

Stewart and Gray Road Haul Route DPM Emissions (AERMOD Source = SAGR1)

Source	Workdays	Year	Speed (mph)	Distance (miles)	Emissions Factor (g/mile)	Peak Trips per Hour	Total Trips	Max Hour (lbs)	Annual (lbs)
Haul Trucks Demolition/Site Preparation	75	2024	40	0.332	0.010872793	4	2490	0.01444	8.98832
Haul Trucks Grading/Underground Utilities	40	2024	40	0.332	0.010872793	13	4688	0.04693	16.92259
							Source Input	**0.047**	**25.911**

Notes:
1. Off-road equipment PM10 exhaust emissions from CalEEMod construction modeling.
2. Truck exhaust PM10 emissions factor reported by EMFAC2021 in grams/mile.
3. 1 gram = 0.0022046 pounds.
4. Idling emissions calculated assuming idling emissions are approximately equal to 5 mph emissions.

Prologis Stewart and Gray Road Warehouse Construction Period 2 HRA DPM Calculations

On-Site DPM Emissions (AERMOD Source = CONST)

Source	Workdays	Year	Speed (mph)	Distance (miles)	Emissions Factor (g/mile)	Peak Loads per Hour	Total Loads	Max Daily (lbs)	Max Hour (lbs)	Annual (lbs)
Equipment Building Construction	40	2024	-	-	-	-	-	0.554	0.06156	65.64000
Equipment Off-Site Driveways & Sidewalks	75	2024	-	-	-	-	-	0.626	0.06956	23.17000
Equipment Off-Site Street Utilities		2024	-	-	-	-	-	0.164	0.01822	16.40000
Equipment Building Construction		2025	-	-	-	-	-	0.442	0.04911	30.88000
Equipment Paving		2025	-	-	-	-	-	0.321	0.03567	6.97200
Equipment Architectural Coating		2025	-	-	-	-	-	0.025	0.00278	1.23400
Haul Truck Idling		2024	5	0.415	1.561E-02	6	1,111	-	0.03888	7.19935
								Source Input	**0.07455**	**151.49535**

Hall Road Haul Route DPM Emissions (AERMOD Source = HALL1)

Source	Workdays	Year	Speed (mph)	Distance (miles)	Emissions Factor (g/mile)	Peak Trips per Hour	Total Trips	Max Hour (lbs)	Annual (lbs)
Haul Trucks Off-Site Driveways & Sidewalks	37	2024	35	0.489	0.008812614	1	58	0.00431	0.24994
Haul Trucks Paving	20	2025	35	0.489	0.008497654	6	1053	0.02493	4.37559
							Source Input	**0.025**	**4.626**

Stewart and Gray Road Haul Route DPM Emissions (AERMOD Source = SAGR1)

Source	Workdays	Year	Speed (mph)	Distance (miles)	Emissions Factor (g/mile)	Peak Trips per Hour	Total Trips	Max Hour (lbs)	Annual (lbs)
Haul Trucks Off-Site Driveways & Sidewalks	37	2024	40	0.332	0.010872793	1	58	0.00361	0.20937
Haul Trucks Paving	20	2025	40	0.332	0.010551329	6	1053	0.02102	3.68870
							Source Input	**0.021**	**3.898**

Notes:
1. Off-road equipment PM10 exhaust emissions from CalEEMod construction modeling.
2. Truck exhaust PM10 emissions factor reported by EMFAC2021 in grams/mile.
3. 1 gram = 0.0022046 pounds.
4. Idling emissions calculated assuming idling emissions are approximately equal to 5 mph emissions.

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2024 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: g/mile for RUNEX, PMBW and PMTW, mph for Speed

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	PM10_RUNEX
Los Angeles (SC)	2024	HHDT	Aggregate	5	Diesel	0.015614605
Los Angeles (SC)	2024	HHDT	Aggregate	35	Diesel	0.008812614
Los Angeles (SC)	2024	HHDT	Aggregate	40	Diesel	0.010872793
Los Angeles (SC)	2025	HHDT	Aggregate	5	Diesel	0.015150385
Los Angeles (SC)	2025	HHDT	Aggregate	35	Diesel	0.008497654
Los Angeles (SC)	2025	HHDT	Aggregate	40	Diesel	0.010551329

Prologis Stewart and Gray Road Warehouse Operational HRA DPM Calculations

Project Truck Trips	Peak Hour	ADT
2 Axle (LHDT2)	2	21
3 Axle (MHDT)	4	40
4 or more Axle (HHDT)	10	87
Total Trucks	16	148
Total TRUs	2	25

Notes:
1. Truck exhaust PM10 emissions factor reported by EMFAC2021 in grams/mile.
2. 1 gram = 0.0022046 pounds.
3. TRU exhasut emissions reported by OFFROAD2021 in pounds/day.
4. Idling emissions calculated assuming idling emissions are approximately equal to 5 mph

HALR1 - Hall Road Route 1	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	2.03393E-02	35	35%	650.0	0.4039	-	0.7	7.4	2682.8	1.2677E-05	4.8586E-02
3 Axle (MHDT)	6.86384E-03	35	35%	650.0	0.4039	-	1.4	14.0	5110	8.5564E-06	3.1231E-02
4 or more Axle (HHDT)	8.24491E-03	35	35%	650.0	0.4039	-	3.5	30.5	11114.25	2.5695E-05	8.1594E-02
TRU	5.25598E-10	35	35%	650.0	0.4039	0.0115	0.7	8.8	3193.75	4.2457E-12	4.2705E-11
Total										**4.6929E-05**	**1.6141E-01**

HALR2 - Hall Road Route 2	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	2.03393E-02	35	23%	142.4	0.0885	-	0.5	4.8	1763.0	1.8251E-06	6.9947E-03
3 Axle (MHDT)	6.86384E-03	35	23%	142.4	0.0885	-	0.9	9.2	3358	1.2318E-06	4.4961E-03
4 or more Axle (HHDT)	8.24491E-03	35	23%	142.4	0.0885	-	2.3	20.0	7303.65	3.6992E-06	1.1747E-02
TRU	5.25598E-10	35	23%	142.4	0.0885	0.0025	0.5	5.8	2098.75	6.1123E-13	2.7887E-09
Total										**6.7561E-06**	**2.3238E-02**

HALR3 - Hall Road Route 3	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	2.03393E-02	35	11%	205.7	0.1278	-	0.2	2.3	843.2	1.2609E-06	4.8323E-03
3 Axle (MHDT)	6.86384E-03	35	11%	205.7	0.1278	-	0.4	4.4	1606	8.5101E-07	3.1062E-03
4 or more Axle (HHDT)	8.24491E-03	35	11%	205.7	0.1278	-	1.1	9.6	3493.05	2.5556E-06	8.1153E-03
TRU	5.25598E-10	35	11%	205.7	0.1278	0.0037	0.2	2.8	1003.75	4.2227E-13	1.9266E-09
Total										**4.6675E-06**	**1.6054E-02**

SAGR1 - Stewart and Gray Road Route 1	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	1.74083E-02	40	50%	282.2	0.1754	-	1.0	10.5	3832.5	6.7297E-06	2.5791E-02
3 Axle (MHDT)	6.66998E-03	40	50%	282.2	0.1754	-	2.0	20.0	7300	5.1569E-06	1.8823E-02
4 or more Axle (HHDT)	1.03130E-02	40	50%	282.2	0.1754	-	5.0	43.5	15877.5	1.9934E-05	6.3300E-02
TRU	5.25598E-10	40	50%	282.2	0.1754	0.0044	1.0	12.5	4562.5	2.3041E-12	1.0512E-08
Total										**3.1820E-05**	**1.0791E-01**

SAGR2 - Stewart and Gray Road Route 2	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	1.74083E-02	40	60%	145.0	0.0901	-	1.2	12.6	4599.0	4.1494E-06	1.5903E-02
3 Axle (MHDT)	6.66998E-03	40	60%	145.0	0.0901	-	2.4	24.0	8760	3.1797E-06	1.1606E-02
4 or more Axle (HHDT)	1.03130E-02	40	60%	145.0	0.0901	-	6.0	52.2	19053	1.2291E-05	3.9030E-02
TRU	5.25598E-10	40	60%	145.0	0.0901	0.0023	1.2	15.0	5475	1.4207E-12	6.4818E-09
Total										**1.9620E-05**	**6.6538E-02**

SAGR3 - Stewart and Gray Road Route 3	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	1.74083E-02	40	30%	145.0	0.0901	-	0.6	6.3	2299.5	2.0747E-06	7.9513E-03
3 Axle (MHDT)	6.66998E-03	40	30%	145.0	0.0901	-	1.2	12.0	4380	1.5898E-06	5.8029E-03
4 or more Axle (HHDT)	1.03130E-02	40	30%	145.0	0.0901	-	3.0	26.1	9526.5	6.1454E-06	1.9515E-02
TRU	5.25598E-10	40	30%	145.0	0.0901	0.0023	0.6	7.5	2737.5	7.1034E-13	3.2409E-09
Total										**9.8100E-06**	**3.3269E-02**

SAGR4 - Stewart and Gray Road Route 4	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	1.74083E-02	40	5%	344.2	0.2139	-	0.1	1.1	383.3	8.2082E-07	3.1458E-03
3 Axle (MHDT)	6.66998E-03	40	5%	344.2	0.2139	-	0.2	2.0	730	6.2899E-07	2.2958E-03
4 or more Axle (HHDT)	1.03130E-02	40	5%	344.2	0.2139	-	0.5	4.4	1587.75	2.4313E-06	7.7207E-03
TRU	5.25598E-10	40	5%	344.2	0.2139	0.0053	0.1	1.3	456.25	2.8103E-13	1.2822E-09
Total										**3.8811E-06**	**1.3162E-02**

WDRR1 - Woodruff Ave Route 1	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	1.74083E-02	40	10%	306.4	0.1904	-	0.2	2.1	766.5	1.4614E-06	5.6006E-03
3 Axle (MHDT)	6.66998E-03	40	10%	306.4	0.1904	-	0.4	4.0	1460	1.1198E-06	4.0874E-03
4 or more Axle (HHDT)	1.03130E-02	40	10%	306.4	0.1904	-	1.0	8.7	3175.5	4.3287E-06	1.3746E-02
TRU	5.25598E-10	40	10%	306.4	0.1904	0.0048	0.2	2.5	912.5	5.0034E-13	2.2828E-09
Total										**6.9098E-06**	**2.3434E-02**

HALDR1 - Hall Road Driveway 1	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	4.10644E-02	15	12%	261.5	0.1625	-	0.2	2.5	919.8	3.5304E-06	1.3530E-02
3 Axle (MHDT)	1.82006E-02	15	12%	261.5	0.1625	-	0.5	4.8	1752	3.1295E-06	1.1423E-02
4 or more Axle (HHDT)	9.67417E-03	15	12%	261.5	0.1625	-	1.2	10.4	3810.6	4.1586E-06	1.3206E-02
TRU	5.25598E-10	15	12%	261.5	0.1625	0.0108	0.2	3.0	1095	1.3665E-12	6.2345E-09
Total										**1.0819E-05**	**3.8159E-02**

HALDR2 - Hall Road Driveway 2	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	4.10644E-02	15	12%	132.2	0.0821	-	0.2	2.5	919.8	1.7848E-06	6.8402E-03
3 Axle (MHDT)	1.82006E-02	15	12%	132.2	0.0821	-	0.5	4.8	1752	1.5821E-06	5.7747E-03
4 or more Axle (HHDT)	9.67417E-03	15	12%	132.2	0.0821	-	1.2	10.4	3810.6	2.1024E-06	6.6760E-03
TRU	5.25598E-10	15	12%	132.2	0.0821	0.0055	0.2	3.0	1095	6.9081E-13	3.1518E-09
Total										**5.4693E-06**	**1.9291E-02**

HALDR3 - Hall Road Driveway 3	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	4.10644E-02	15	11%	213.2	0.1325	-	0.2	2.3	843.2	2.6385E-06	1.0112E-02
3 Axle (MHDT)	1.82006E-02	15	11%	213.2	0.1325	-	0.4	4.4	1606	2.3389E-06	8.5369E-03
4 or more Axle (HHDT)	9.67417E-03	15	11%	213.2	0.1325	-	1.1	9.6	3493.05	3.1080E-06	9.8693E-03
TRU	5.25598E-10	15	11%	213.2	0.1325	0.0088	0.2	2.8	1003.75	1.0212E-12	4.6594E-09
Total										**8.0853E-06**	**2.8518E-02**

SAGDR1 - Stewart and Gray Road Driveway 1	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	4.10644E-02	15	30%	156.3	0.0971	-	0.6	6.3	2299.5	5.2754E-06	2.0218E-02
3 Axle (MHDT)	1.82006E-02	15	30%	156.3	0.0971	-	1.2	12.0	4380	4.6763E-06	1.7069E-02
4 or more Axle (HHDT)	9.67417E-03	15	30%	156.3	0.0971	-	3.0	26.1	9526.5	6.2140E-06	1.9733E-02
TRU	5.25598E-10	15	30%	156.3	0.0971	0.0065	0.6	7.5	2737.5	2.0418E-12	9.3159E-09
Total										**1.6166E-05**	**5.7019E-02**

SAGDR2 - Stewart and Gray Road Driveway 2	Emission Factor	Avg. Speed (mph)	% of Trips	meters	Miles	Time (hours)	Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	4.10644E-02	15	35%	153.1	0.0951	-	0.7	7.4	2682.8	6.0286E-06	2.3105E-02
3 Axle (MHDT)	1.82006E-02	15	35%	153.1	0.0951	-	1.4	14.0	5110	5.3440E-06	1.9506E-02
4 or more Axle (HHDT)	9.67417E-03	15	35%	153.1	0.0951	-	3.5	30.5	11114.25	7.1013E-06	2.2550E-02
TRU	5.25598E-10	15	35%	153.1	0.0951	0.0063	0.7	8.8	3193.75	2.3334E-12	1.0646E-08
Total										**1.8474E-05**	**6.5161E-02**

DOCK# - Loading Docks	Emission Factor		% of Trips	Idle/Trip (minutes)	TRU/Trip (hours)		Peak Hour Trips	ADT	Annual Trips	Max lb./hour	Annual lb./year
2 Axle (LHDT2)	5.90403E-02		10%	6	-		0.20	2.10	766.5	1.3016E-05	4.9882E-02
3 Axle (MHDT)	3.45949E-02		10%	6	-		0.40	4.00	1460	1.5253E-05	5.5673E-02
4 or more Axle (HHDT)	1.48690E-02		10%	6	-		1.00	8.70	3175.5	1.6389E-05	5.2045E-02
TRU	5.25598E-10		10%	-	2		0.20	2.50	912.5	2.6280E-09	9.5922E-07
Total										**4.4658E-05**	**1.5760E-01**

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, mph for Speed

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	PM10_RUNEX
Los Angeles (SC)	2026	HHDT	Aggregate	5	Diesel	473.273424	0.014868997
Los Angeles (SC)	2026	LHDT2	Aggregate	5	Diesel	188.314465	0.059040296
Los Angeles (SC)	2026	MHDT	Aggregate	5	Diesel	1509.81051	0.034594873
Los Angeles (SC)	2026	HHDT	Aggregate	15	Diesel	26745.4501	0.009674167
Los Angeles (SC)	2026	LHDT2	Aggregate	15	Diesel	7679.30311	0.041064364
Los Angeles (SC)	2026	MHDT	Aggregate	15	Diesel	32811.4851	0.018200565
Los Angeles (SC)	2026	HHDT	Aggregate	35	Diesel	452722.491	0.008244912
Los Angeles (SC)	2026	LHDT2	Aggregate	35	Diesel	114832.481	0.020339267
Los Angeles (SC)	2026	MHDT	Aggregate	35	Diesel	276393.301	0.006863838
Los Angeles (SC)	2026	HHDT	Aggregate	40	Diesel	420831.301	0.010312952
Los Angeles (SC)	2026	LHDT2	Aggregate	40	Diesel	81542.8075	0.017408273
Los Angeles (SC)	2026	MHDT	Aggregate	40	Diesel	225643.953	0.006669981

Model Output: OFFROAD2021 (v1.0.5) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, hours/year for Activity

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	PM10_tpd	Total_Activity_hpy
Los Angeles (SC)	2026	Transportation Refridgeration Unit - Instate Genset	Aggregate	Aggregate	Diesel	0.0018329	818011.94
Los Angeles (SC)	2026	Transportation Refridgeration Unit - Instate Trailer	Aggregate	Aggregate	Diesel	0.0297192	12281205.42
Los Angeles (SC)	2026	Transportation Refridgeration Unit - Instate Truck	Aggregate	Aggregate	Diesel	0.0060508	1103850.54
Los Angeles (SC)	2026	Transportation Refridgeration Unit - Out-Of-State Genset	Aggregate	Aggregate	Diesel	0.0017374	655633.38
Los Angeles (SC)	2026	Transportation Refridgeration Unit - Out-Of-State Trailer	Aggregate	Aggregate	Diesel	0.0238627	7086872.33
					Total	**0.063203**	**21945573.61**
					lbs/hour	**5.256E-10**	

Residential Cancer Risk

*HARP - HRACalc v22118 9/21/2023 6:38:56 AM - Cancer Risk

REC	GRP	NETID	X	Y	SCENARIO	Const 1	Const 2	Ops	Total 30 yr
730	ALL	R1	396359.3	3754638.82	30YrCancerRMP_Inh_FAH3to70	1.36E-06	1.07E-06	7.99E-08	2.51E-06
731	ALL	R2	396998.06	3754826.96	30YrCancerRMP_Inh_FAH3to70	2.42E-06	5.69E-07	1.70E-07	3.16E-06
732	ALL	R3	396832.12	3754939.42	30YrCancerRMP_Inh_FAH3to70	2.33E-06	1.19E-06	1.43E-07	3.66E-06
733	ALL	R4/MEIR	396806.31	3754968.92	30YrCancerRMP_Inh_FAH3to70	3.48E-06	1.67E-06	1.61E-07	5.31E-06
734	ALL	R5	396294.97	3755128.11	30YrCancerRMP_Inh_FAH3to70	7.71E-07	6.02E-07	6.53E-08	1.44E-06
735	ALL	R6	396292.44	3754939.64	30YrCancerRMP_Inh_FAH3to70	1.38E-06	1.10E-06	1.18E-07	2.59E-06
736	ALL	R7	396292.44	3754810.24	30YrCancerRMP_Inh_FAH3to70	1.48E-06	1.18E-06	1.18E-07	2.78E-06
737	ALL	R8	396290.91	3754727.55	30YrCancerRMP_Inh_FAH3to70	1.37E-06	1.08E-06	8.91E-08	2.54E-06
785	ALL	PMI	396614.21	3755019.34	30YrCancerRMP_Inh_FAH3to70	1.16E-05	8.94E-06	3.13E-07	2.08E-05

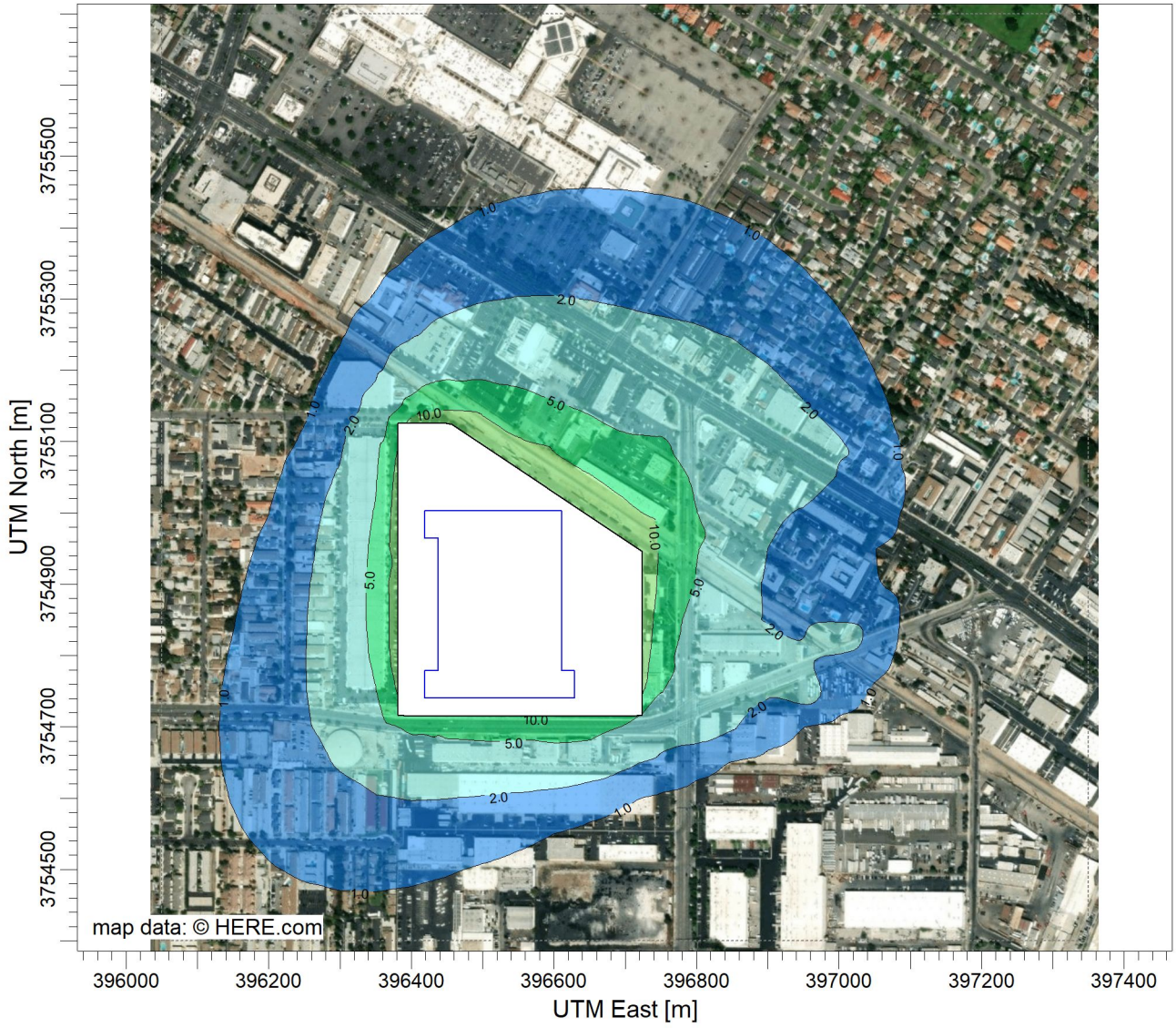
Residential Non-Cancer Chronic Risk

*HARP - HRACalc v22118 9/21/2023 6:56:48 AM - Chronic Risk

REC	GRP	NETID	X	Y	SCENARIO	Const 1	Const 2	Ops	Total 30 yr
730	ALL	R1	396359.3	3754638.82	NonCancerChronicHighEnd_Inh	0.003345		3.63E-05	3.38E-03
731	ALL	R2	396998.06	3754826.96	NonCancerChronicHighEnd_Inh	0.005953		7.71E-05	6.03E-03
732	ALL	R3	396832.12	3754939.42	NonCancerChronicHighEnd_Inh	0.00573		6.51E-05	5.80E-03
733	ALL	R4/MEIR	396806.31	3754968.92	NonCancerChronicHighEnd_Inh	0.008554		7.33E-05	8.63E-03
734	ALL	R5	396294.97	3755128.11	NonCancerChronicHighEnd_Inh	0.001894		2.96E-05	1.92E-03
735	ALL	R6	396292.44	3754939.64	NonCancerChronicHighEnd_Inh	0.003385		5.34E-05	3.44E-03
736	ALL	R7	396292.44	3754810.24	NonCancerChronicHighEnd_Inh	0.003649		5.35E-05	3.70E-03
737	ALL	R8	396290.91	3754727.55	NonCancerChronicHighEnd_Inh	0.003357		4.05E-05	3.40E-03
785	ALL	PMI	396614.21	3755019.34	NonCancerChronicHighEnd_Inh	0.0285		0.000142	2.86E-02

PROJECT TITLE:

Prologis Stewart and Gray Warehouse
Residential 30-year Cancer Risk



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 27.8 [ug/m^3] at (396550.00, 3754900.00)

1.0 2.0 5.0 10.0

COMMENTS: Risk in chances per million.	SOURCES: **18**	COMPANY NAME: **HELIX Environmenal Planning**	
	RECEPTORS: **817**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:9,661 0 0.3 km	
	MAX: **27.8 ug/m^3**	DATE: **9/21/2023**	PROJECT NO.:

Off-Site Worker Cancer Risk

*HARP - HRACalc v22118 9/21/2023 6:55:43 AM - Cancer Risk

REC	GRP	NETID	X	Y	SCENARIO	Const 1	Const 2	Ops	Total 30 yr
738	ALL	W1	396431.66	3754681.07	25YrCancerDerived_Inh	3.75E-08	3.43E-08	2.11E-08	9.29E-08
739	ALL	W2	396647.4	3754685.12	25YrCancerDerived_Inh	5.46E-08	3.04E-08	2.96E-08	1.15E-07
740	ALL	W3	396727.12	3754740.07	25YrCancerDerived_Inh	8.09E-08	5.72E-08	3.42E-08	1.72E-07
741	ALL	W4	396726.22	3754914.82	25YrCancerDerived_Inh	1.34E-07	1.11E-07	3.6E-08	2.81E-07
742	ALL	W5	396370.99	3755104.47	25YrCancerDerived_Inh	5.19E-08	4.90E-08	1.82E-08	1.19E-07
743	ALL	W6	396369.64	3754929.71	25YrCancerDerived_Inh	7.34E-08	6.95E-08	5.09E-08	1.94E-07
744	ALL	W7	396365.59	3754753.61	25YrCancerDerived_Inh	5.6E-08	5.27E-08	3.13E-08	1.40E-07

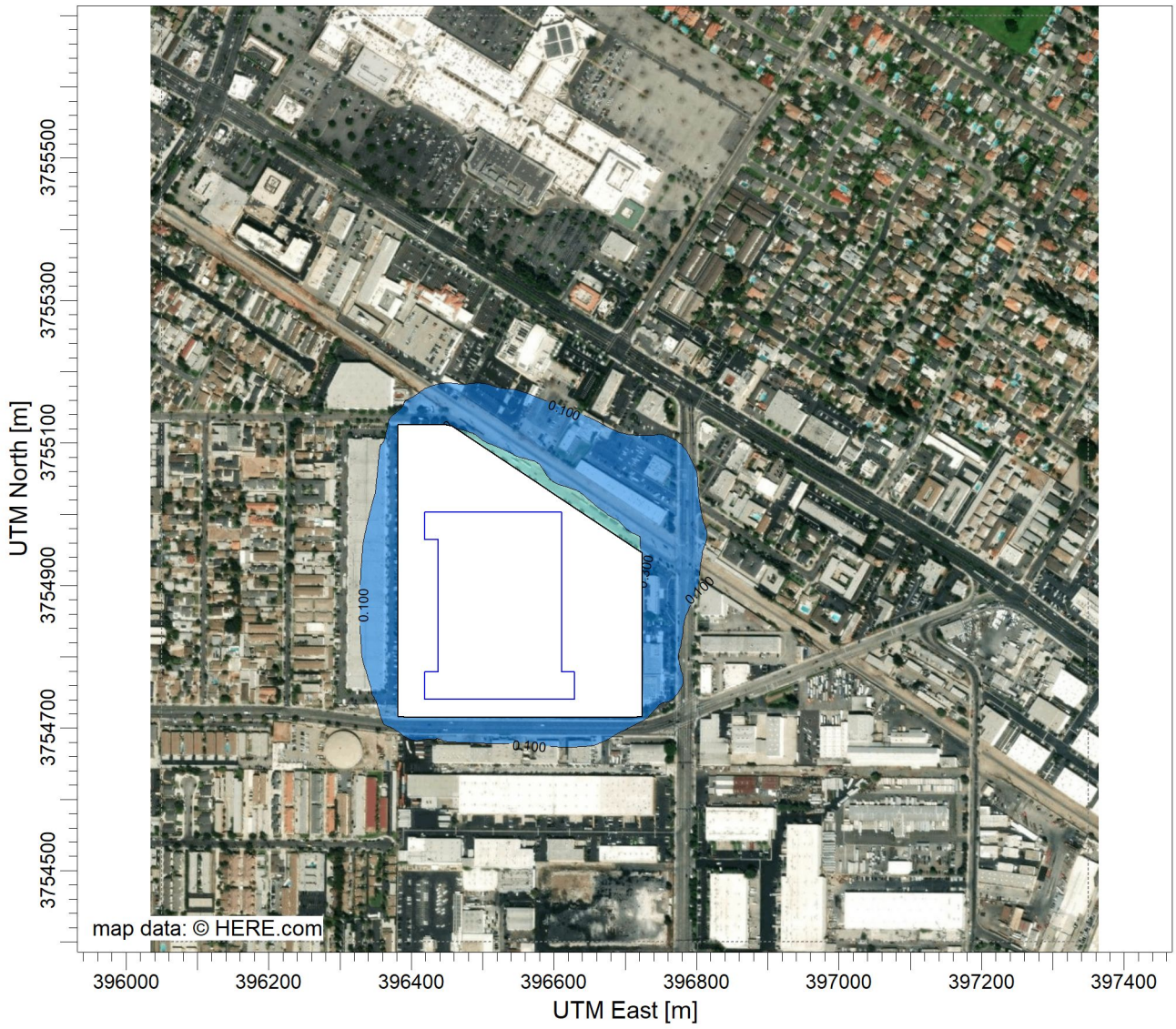
Off-Site Worker Non-Cancer Chronic Risk

*HARP - HRACalc v22118 9/21/2023 7:03:24 AM - Chronic Risk

REC	GRP	NETID	X	Y	SCENARIO	Const 1	Const 2	Const 2	Total 30 yr
738	ALL	W1	396431.66	3754681.07	NonCancerChronicDerived_Inh	5.81E-03		3.79E-03	9.60E-03
739	ALL	W2	396647.4	3754685.12	NonCancerChronicDerived_Inh	8.46E-03		3.36E-03	1.18E-02
740	ALL	W3	396727.12	3754740.07	NonCancerChronicDerived_Inh	1.25E-02		6.32E-03	1.89E-02
741	ALL	W4	396726.22	3754914.82	NonCancerChronicDerived_Inh	2.07E-02		1.23E-02	3.30E-02
742	ALL	W5	396370.99	3755104.47	NonCancerChronicDerived_Inh	8.04E-03		5.42E-03	1.35E-02
743	ALL	W6	396369.64	3754929.71	NonCancerChronicDerived_Inh	1.14E-02		7.68E-03	1.90E-02
744	ALL	W7	396365.59	3754753.61	NonCancerChronicDerived_Inh	8.68E-03		5.83E-03	1.45E-02

PROJECT TITLE:

Prologis Stewart and Gray Warehouse
Off-Site Worker 25-year Cancer Risk



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL ug/m^3

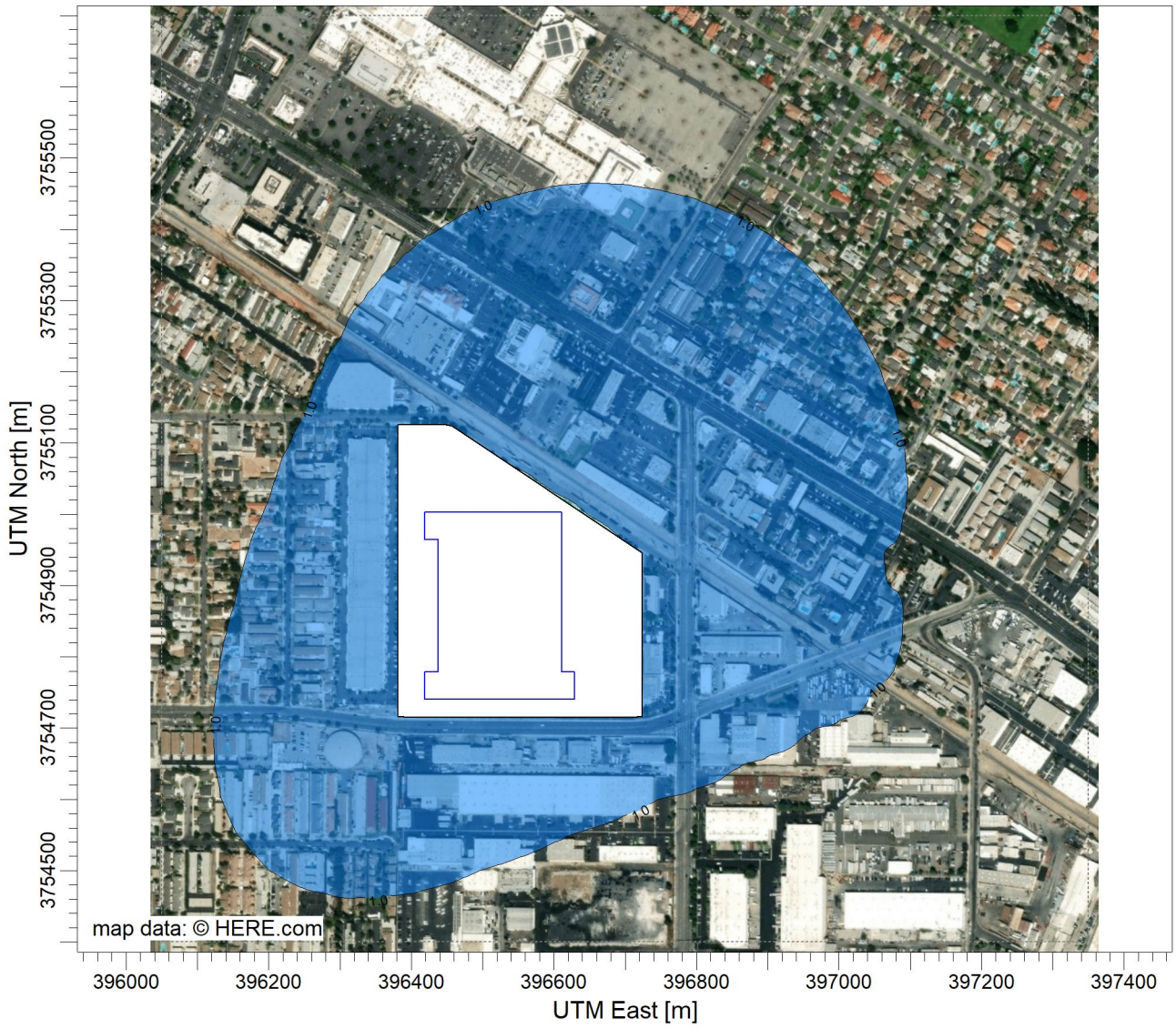
Max: 0.579 [ug/m^3] at (396500.00, 3755000.00)

0.100 0.300

COMMENTS: Risk in chances per million.	SOURCES: **18**	COMPANY NAME: **HELIX Environmenal Planning**	
	RECEPTORS: **817**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:9,661 0 0.3 km	
	MAX: **0.579 ug/m^3**	DATE: **9/21/2023**	PROJECT NO.:

PROJECT TITLE:

Prologis Stewart and Gray Warehouse
70-Year Residential Cancer Burden



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 28.2 [ug/m^3] at (396500.00, 3755000.00)

1.0 20.0

COMMENTS: 1 in 1 million risk isopleth in chances per million.	SOURCES: **18**	COMPANY NAME: **HELIX Environmenal Planning**	
	RECEPTORS: **817**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:9,661 0 0.3 km	
	MAX: **28.2 ug/m^3**	DATE: **9/21/2023**	PROJECT NO.:

Control Pathway

Dispersion Options

Titles

C:\Users\martinr\Desktop\Downey HRA\Downey Prologis Disp\Downey Prol

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban — Population: Name (Optional): Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

OTHER - DPM

Exponential Decay

Half-life of 4 hrs will be used

Averaging Time Options

Hours: ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☑ Yes ☐ No

Default Height = 1.20 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Downey Prologis Disp Construction.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: CONST (On-Site Construciion)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
32.80	3.00	8.78E-6	4.00	8	396383.59	3754718.22
		8.78E-6			396398.35	3754716.68
		8.78E-6			396710.06	3754716.73
		8.78E-6			396721.87	3754718.33
		8.78E-6			396721.99	3754945.08
		8.78E-6			396456.83	3755122.34
		8.78E-6			396448.61	3755123.97
		8.78E-6			396383.62	3755123.95

Line Volume Sources

Source Type: LINE VOLUME

Source: HALR1 (Hall Rd Route 1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396588.70	3755044.97	33.38	3.40
			396784.94	3754918.20	33.54	3.40
			396787.94	3755170.42	33.94	3.40
			397046.67	3755015.28	34.13	3.40

Source Type: LINE VOLUME

Source: SAGR1 (Stewart and Gray Rd Route 1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396536.39	3754700.71	32.88	0.00
			396726.00	3754700.35	32.66	0.00
			396796.79	3754724.48	32.63	0.00
			397049.68	3754819.36	33.66	0.00

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR1	L0000380	396548.53	3754700.68	32.85	0.00	0.04545	24.29		11.30	3.16
	L0000381	396572.82	3754700.64	32.81	0.00	0.04545	24.29		11.30	3.16
	L0000382	396597.11	3754700.59	32.77	0.00	0.04545	24.29		11.30	3.16
	L0000383	396621.40	3754700.55	32.76	0.00	0.04545	24.29		11.30	3.16
	L0000384	396645.68	3754700.50	32.73	0.00	0.04545	24.29		11.30	3.16
	L0000385	396669.97	3754700.46	32.70	0.00	0.04545	24.29		11.30	3.16
	L0000386	396694.26	3754700.41	32.67	0.00	0.04545	24.29		11.30	3.16
	L0000387	396718.55	3754700.36	32.65	0.00	0.04545	24.29		11.30	3.16
	L0000388	396741.93	3754705.78	32.68	0.00	0.04545	24.29		11.30	3.16
	L0000389	396764.92	3754713.62	32.59	0.00	0.04545	24.29		11.30	3.16
	L0000390	396787.91	3754721.45	32.68	0.00	0.04545	24.29		11.30	3.16
	L0000391	396810.75	3754729.72	32.55	0.00	0.04545	24.29		11.30	3.16
	L0000392	396833.49	3754738.25	32.61	0.00	0.04545	24.29		11.30	3.16
	L0000393	396856.23	3754746.78	32.72	0.00	0.04545	24.29		11.30	3.16
	L0000394	396878.97	3754755.31	32.83	0.00	0.04545	24.29		11.30	3.16
	L0000395	396901.71	3754763.85	32.90	0.00	0.04545	24.29		11.30	3.16
	L0000396	396924.45	3754772.38	32.96	0.00	0.04545	24.29		11.30	3.16
	L0000397	396947.19	3754780.91	33.08	0.00	0.04545	24.29		11.30	3.16
	L0000398	396969.93	3754789.44	33.62	0.00	0.04545	24.29		11.30	3.16
	L0000399	396992.67	3754797.97	34.10	0.00	0.04545	24.29		11.30	3.16
	L0000400	397015.41	3754806.51	34.00	0.00	0.04545	24.29		11.30	3.16
	L0000401	397038.15	3754815.04	33.75	0.00	0.04545	24.29		11.30	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALR1	L0000402	396598.91	3755038.38	33.35	3.40	0.03125	24.29		11.30	3.16
	L0000403	396619.31	3755025.20	33.34	3.40	0.03125	24.29		11.30	3.16
	L0000404	396639.71	3755012.02	33.37	3.40	0.03125	24.29		11.30	3.16
	L0000405	396660.11	3754998.84	33.34	3.40	0.03125	24.29		11.30	3.16
	L0000406	396680.51	3754985.66	33.28	3.40	0.03125	24.29		11.30	3.16
	L0000407	396700.91	3754972.48	33.25	3.40	0.03125	24.29		11.30	3.16
	L0000408	396721.31	3754959.30	33.26	3.40	0.03125	24.29		11.30	3.16
	L0000409	396741.71	3754946.12	33.23	3.40	0.03125	24.29		11.30	3.16
	L0000410	396762.11	3754932.94	33.23	3.40	0.03125	24.29		11.30	3.16
	L0000411	396782.51	3754919.76	33.42	3.40	0.03125	24.29		11.30	3.16
	L0000412	396785.19	3754939.60	34.11	3.40	0.03125	24.29		11.30	3.16
	L0000413	396785.48	3754963.89	33.63	3.40	0.03125	24.29		11.30	3.16
	L0000414	396785.77	3754988.17	33.32	3.40	0.03125	24.29		11.30	3.16
	L0000415	396786.06	3755012.46	33.34	3.40	0.03125	24.29		11.30	3.16
	L0000416	396786.35	3755036.74	33.45	3.40	0.03125	24.29		11.30	3.16
	L0000417	396786.64	3755061.03	33.54	3.40	0.03125	24.29		11.30	3.16
	L0000418	396786.93	3755085.32	33.64	3.40	0.03125	24.29		11.30	3.16
	L0000419	396787.22	3755109.60	33.72	3.40	0.03125	24.29		11.30	3.16
	L0000420	396787.51	3755133.89	33.79	3.40	0.03125	24.29		11.30	3.16
	L0000421	396787.79	3755158.18	33.84	3.40	0.03125	24.29		11.30	3.16
	L0000422	396798.27	3755164.22	33.97	3.40	0.03125	24.29		11.30	3.16
	L0000423	396819.10	3755151.73	34.01	3.40	0.03125	24.29		11.30	3.16
	L0000424	396839.93	3755139.24	33.97	3.40	0.03125	24.29		11.30	3.16
	L0000425	396860.76	3755126.75	34.04	3.40	0.03125	24.29		11.30	3.16
	L0000426	396881.59	3755114.26	34.16	3.40	0.03125	24.29		11.30	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALR1	L0000427	396902.42	3755101.77	34.11	3.40	0.03125	24.29		11.30	3.16
	L0000428	396923.25	3755089.28	34.07	3.40	0.03125	24.29		11.30	3.16
	L0000429	396944.08	3755076.79	34.07	3.40	0.03125	24.29		11.30	3.16
	L0000430	396964.91	3755064.30	34.12	3.40	0.03125	24.29		11.30	3.16
	L0000431	396985.74	3755051.81	34.16	3.40	0.03125	24.29		11.30	3.16
	L0000432	397006.57	3755039.32	34.14	3.40	0.03125	24.29		11.30	3.16
	L0000433	397027.40	3755026.83	34.13	3.40	0.03125	24.29		11.30	3.16

Source Pathway - Source Inputs

Volume Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	DOCK1	396420.00	3754930.00	33.95	3.60	1.00000	25.00	Surface-Based	5.81	0.93
VOLUME	DOCK2	396420.00	3754815.00	32.93	3.60	1.00000	25.00	Surface-Based	5.81	0.93
VOLUME	DOCK3	396630.00	3754930.00	33.21	3.60	1.00000	25.00	Surface-Based	5.81	0.93
VOLUME	DOCK4	396630.00	3754815.00	33.09	3.60	1.00000	25.00	Surface-Based	5.81	0.93
VOLUME	DOCK5	396515.00	3755020.00	33.12	3.60	1.00000	23.94	Surface-Based	5.57	0.93

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME
Source: HALDR1 (Hall Rd Drive 1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.60	1.00000		396397.97	3755133.40	33.93	3.40
			396398.31	3754871.91	33.12	3.40

Source Type: LINE VOLUME
Source: HALDR2 (Hall Rd Drive 2)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.60	1.00000		396579.66	3755050.06	33.45	3.40
			396568.26	3755017.51	33.32	3.40
			396470.60	3755017.92	33.38	3.40

Source Type: LINE VOLUME
Source: HALDR3 (Hall Rd Drive 3)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.60	1.00000		396702.55	3754969.49	33.34	3.40
			396691.56	3754951.18	33.36	3.40
			396637.85	3754986.18	33.47	3.40
			396626.45	3754986.18	33.30	3.40
			396626.86	3754869.80	33.11	3.40

Source Type: LINE VOLUME
Source: HALR1 (Hall Rd Route 1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396703.87	3754969.74	33.33	3.40
			396784.94	3754918.20	33.54	3.40
			396787.94	3755170.42	33.94	3.40
			397046.67	3755015.28	34.13	3.40

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: HALR2 (Hall Rd Route 2)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
18.19	1.00000		396701.16	3754971.86	33.26	3.40
			396581.69	3755049.44	33.37	3.40

Source Type: LINE VOLUME
Source: HALR3 (Hall Rd Route 3)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
18.19	1.00000		396578.42	3755053.20	33.46	3.40
			396455.37	3755134.45	33.79	3.40
			396397.12	3755134.97	33.94	3.40

Source Type: LINE VOLUME
Source: SAGDR1 (Stewart and Gray Road Drive 1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.60	1.00000		396402.62	3754706.54	32.89	3.40
			396402.30	3754862.81	33.20	3.40

Source Type: LINE VOLUME
Source: SAGDR2 (Stewary and Gray Rd Drive 2)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.60	1.00000		396643.54	3754705.32	32.77	3.40
			396643.20	3754858.41	33.13	3.40

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: SAGR1 (Stewart and Gray Rd Route 1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396785.49	3754720.24	32.69	3.40
			397049.68	3754819.36	33.66	3.40

Source Type: LINE VOLUME
Source: SAGR2 (Stewart adn Gray Rd Route 2)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396785.49	3754721.52	32.70	3.40
			396726.78	3754700.24	32.66	3.40
			396644.25	3754701.09	32.74	3.40

Source Type: LINE VOLUME
Source: SAGR3 (Stewart and Gray Rd Route 3)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396644.67	3754698.54	32.68	3.40
			396402.18	3754699.82	32.87	3.40

Source Type: LINE VOLUME
Source: SAGR4 (Stewart and Gray Rd Route 4)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396401.88	3754699.94	32.89	3.40
			396377.58	3754701.77	32.84	3.40
			396225.55	3754721.36	32.73	3.40
			396059.06	3754722.36	32.45	3.40

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: WDRR1 (Woodruff Ave Route 1)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		396784.52	3754721.20	32.70	3.40
			396781.54	3754414.79	31.80	3.40

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGDR1	L0000001	396402.62	3754710.84	32.81	3.40	0.05556	8.60		4.00	3.16
	L0000002	396402.60	3754719.44	32.56	3.40	0.05556	8.60		4.00	3.16
	L0000003	396402.58	3754728.04	32.74	3.40	0.05556	8.60		4.00	3.16
	L0000004	396402.56	3754736.64	32.82	3.40	0.05556	8.60		4.00	3.16
	L0000005	396402.54	3754745.24	32.83	3.40	0.05556	8.60		4.00	3.16
	L0000006	396402.53	3754753.84	32.83	3.40	0.05556	8.60		4.00	3.16
	L0000007	396402.51	3754762.44	32.84	3.40	0.05556	8.60		4.00	3.16
	L0000008	396402.49	3754771.04	32.83	3.40	0.05556	8.60		4.00	3.16
	L0000009	396402.47	3754779.64	32.86	3.40	0.05556	8.60		4.00	3.16
	L0000010	396402.46	3754788.24	32.89	3.40	0.05556	8.60		4.00	3.16
	L0000011	396402.44	3754796.84	32.91	3.40	0.05556	8.60		4.00	3.16
	L0000012	396402.42	3754805.44	32.94	3.40	0.05556	8.60		4.00	3.16
	L0000013	396402.40	3754814.04	32.96	3.40	0.05556	8.60		4.00	3.16
	L0000014	396402.38	3754822.64	32.94	3.40	0.05556	8.60		4.00	3.16
	L0000015	396402.37	3754831.24	32.96	3.40	0.05556	8.60		4.00	3.16
	L0000016	396402.35	3754839.84	33.07	3.40	0.05556	8.60		4.00	3.16
	L0000017	396402.33	3754848.44	33.12	3.40	0.05556	8.60		4.00	3.16
	L0000018	396402.31	3754857.04	33.15	3.40	0.05556	8.60		4.00	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGDR2	L0000029	396643.53	3754709.62	32.78	3.40	0.05556	8.60		4.00	3.16
	L0000030	396643.52	3754718.22	32.80	3.40	0.05556	8.60		4.00	3.16
	L0000031	396643.50	3754726.82	32.84	3.40	0.05556	8.60		4.00	3.16
	L0000032	396643.48	3754735.42	32.94	3.40	0.05556	8.60		4.00	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGDR2	L0000033	396643.46	3754744.02	33.04	3.40	0.05556	8.60		4.00	3.16
	L0000034	396643.44	3754752.62	33.08	3.40	0.05556	8.60		4.00	3.16
	L0000035	396643.42	3754761.22	33.07	3.40	0.05556	8.60		4.00	3.16
	L0000036	396643.40	3754769.82	33.06	3.40	0.05556	8.60		4.00	3.16
	L0000037	396643.38	3754778.42	33.08	3.40	0.05556	8.60		4.00	3.16
	L0000038	396643.36	3754787.02	33.09	3.40	0.05556	8.60		4.00	3.16
	L0000039	396643.34	3754795.62	33.09	3.40	0.05556	8.60		4.00	3.16
	L0000040	396643.32	3754804.22	33.09	3.40	0.05556	8.60		4.00	3.16
	L0000041	396643.30	3754812.82	33.09	3.40	0.05556	8.60		4.00	3.16
	L0000042	396643.29	3754821.42	33.11	3.40	0.05556	8.60		4.00	3.16
	L0000043	396643.27	3754830.02	33.13	3.40	0.05556	8.60		4.00	3.16
	L0000044	396643.25	3754838.62	33.13	3.40	0.05556	8.60		4.00	3.16
	L0000045	396643.23	3754847.22	33.12	3.40	0.05556	8.60		4.00	3.16
	L0000046	396643.21	3754855.82	33.13	3.40	0.05556	8.60		4.00	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALDR1	L0000047	396397.97	3755129.10	33.93	3.40	0.03333	8.60		4.00	3.16
	L0000048	396397.99	3755120.50	34.05	3.40	0.03333	8.60		4.00	3.16
	L0000049	396398.00	3755111.90	34.08	3.40	0.03333	8.60		4.00	3.16
	L0000050	396398.01	3755103.30	34.09	3.40	0.03333	8.60		4.00	3.16
	L0000051	396398.02	3755094.70	34.15	3.40	0.03333	8.60		4.00	3.16
	L0000052	396398.03	3755086.10	34.09	3.40	0.03333	8.60		4.00	3.16
	L0000053	396398.04	3755077.50	33.62	3.40	0.03333	8.60		4.00	3.16
	L0000054	396398.05	3755068.90	33.47	3.40	0.03333	8.60		4.00	3.16
	L0000055	396398.07	3755060.30	33.46	3.40	0.03333	8.60		4.00	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALDR1	L0000056	396398.08	3755051.70	33.43	3.40	0.03333	8.60		4.00	3.16
	L0000057	396398.09	3755043.10	33.38	3.40	0.03333	8.60		4.00	3.16
	L0000058	396398.10	3755034.50	33.36	3.40	0.03333	8.60		4.00	3.16
	L0000059	396398.11	3755025.90	33.36	3.40	0.03333	8.60		4.00	3.16
	L0000060	396398.12	3755017.30	33.38	3.40	0.03333	8.60		4.00	3.16
	L0000061	396398.13	3755008.70	33.36	3.40	0.03333	8.60		4.00	3.16
	L0000062	396398.14	3755000.10	33.30	3.40	0.03333	8.60		4.00	3.16
	L0000063	396398.16	3754991.50	33.25	3.40	0.03333	8.60		4.00	3.16
	L0000064	396398.17	3754982.90	33.21	3.40	0.03333	8.60		4.00	3.16
	L0000065	396398.18	3754974.30	33.18	3.40	0.03333	8.60		4.00	3.16
	L0000066	396398.19	3754965.70	33.17	3.40	0.03333	8.60		4.00	3.16
	L0000067	396398.20	3754957.10	33.19	3.40	0.03333	8.60		4.00	3.16
	L0000068	396398.21	3754948.50	33.28	3.40	0.03333	8.60		4.00	3.16
	L0000069	396398.22	3754939.90	33.26	3.40	0.03333	8.60		4.00	3.16
	L0000070	396398.24	3754931.30	33.21	3.40	0.03333	8.60		4.00	3.16
	L0000071	396398.25	3754922.70	33.26	3.40	0.03333	8.60		4.00	3.16
	L0000072	396398.26	3754914.10	33.24	3.40	0.03333	8.60		4.00	3.16
	L0000073	396398.27	3754905.50	33.23	3.40	0.03333	8.60		4.00	3.16
	L0000074	396398.28	3754896.90	33.22	3.40	0.03333	8.60		4.00	3.16
	L0000075	396398.29	3754888.30	33.20	3.40	0.03333	8.60		4.00	3.16
	L0000076	396398.30	3754879.70	33.17	3.40	0.03333	8.60		4.00	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALDR2	L0000077	396578.24	3755046.00	33.39	3.40	0.06667	8.60		4.00	3.16
	L0000078	396575.40	3755037.89	33.30	3.40	0.06667	8.60		4.00	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALDR2	L0000079	396572.56	3755029.77	33.28	3.40	0.06667	8.60		4.00	3.16
	L0000080	396569.71	3755021.65	33.30	3.40	0.06667	8.60		4.00	3.16
	L0000081	396564.05	3755017.53	33.33	3.40	0.06667	8.60		4.00	3.16
	L0000082	396555.45	3755017.56	33.38	3.40	0.06667	8.60		4.00	3.16
	L0000083	396546.85	3755017.60	33.23	3.40	0.06667	8.60		4.00	3.16
	L0000084	396538.25	3755017.63	33.22	3.40	0.06667	8.60		4.00	3.16
	L0000085	396529.65	3755017.67	33.13	3.40	0.06667	8.60		4.00	3.16
	L0000086	396521.05	3755017.71	33.15	3.40	0.06667	8.60		4.00	3.16
	L0000087	396512.45	3755017.74	33.11	3.40	0.06667	8.60		4.00	3.16
	L0000088	396503.86	3755017.78	33.17	3.40	0.06667	8.60		4.00	3.16
	L0000089	396495.26	3755017.81	33.22	3.40	0.06667	8.60		4.00	3.16
	L0000090	396486.66	3755017.85	33.29	3.40	0.06667	8.60		4.00	3.16
	L0000091	396478.06	3755017.89	33.37	3.40	0.06667	8.60		4.00	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALDR3	L0000092	396700.34	3754965.81	33.32	3.40	0.04000	8.60		4.00	3.16
	L0000093	396695.91	3754958.43	33.38	3.40	0.04000	8.60		4.00	3.16
	L0000094	396691.44	3754951.26	33.36	3.40	0.04000	8.60		4.00	3.16
	L0000095	396684.23	3754955.96	33.30	3.40	0.04000	8.60		4.00	3.16
	L0000096	396677.03	3754960.65	33.18	3.40	0.04000	8.60		4.00	3.16
	L0000097	396669.82	3754965.34	33.29	3.40	0.04000	8.60		4.00	3.16
	L0000098	396662.62	3754970.04	33.37	3.40	0.04000	8.60		4.00	3.16
	L0000099	396655.41	3754974.73	33.50	3.40	0.04000	8.60		4.00	3.16
	L0000100	396648.21	3754979.43	33.34	3.40	0.04000	8.60		4.00	3.16
	L0000101	396641.00	3754984.12	33.53	3.40	0.04000	8.60		4.00	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALDR3	L0000102	396633.01	3754986.18	33.44	3.40	0.04000	8.60		4.00	3.16
	L0000103	396626.46	3754984.13	33.32	3.40	0.04000	8.60		4.00	3.16
	L0000104	396626.49	3754975.53	33.30	3.40	0.04000	8.60		4.00	3.16
	L0000105	396626.52	3754966.93	33.25	3.40	0.04000	8.60		4.00	3.16
	L0000106	396626.55	3754958.33	33.24	3.40	0.04000	8.60		4.00	3.16
	L0000107	396626.58	3754949.73	33.27	3.40	0.04000	8.60		4.00	3.16
	L0000108	396626.61	3754941.13	33.27	3.40	0.04000	8.60		4.00	3.16
	L0000109	396626.64	3754932.53	33.22	3.40	0.04000	8.60		4.00	3.16
	L0000110	396626.67	3754923.93	33.20	3.40	0.04000	8.60		4.00	3.16
	L0000111	396626.70	3754915.33	33.21	3.40	0.04000	8.60		4.00	3.16
	L0000112	396626.73	3754906.73	33.22	3.40	0.04000	8.60		4.00	3.16
	L0000113	396626.76	3754898.13	33.21	3.40	0.04000	8.60		4.00	3.16
	L0000114	396626.79	3754889.53	33.14	3.40	0.04000	8.60		4.00	3.16
	L0000115	396626.82	3754880.93	33.10	3.40	0.04000	8.60		4.00	3.16
	L0000116	396626.85	3754872.33	33.11	3.40	0.04000	8.60		4.00	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALR1	L0000117	396714.12	3754963.23	33.22	3.40	0.03704	24.29		11.30	3.16
	L0000118	396734.61	3754950.20	33.24	3.40	0.03704	24.29		11.30	3.16
	L0000119	396755.11	3754937.16	33.27	3.40	0.03704	24.29		11.30	3.16
	L0000120	396775.60	3754924.13	33.34	3.40	0.03704	24.29		11.30	3.16
	L0000121	396785.10	3754931.42	33.94	3.40	0.03704	24.29		11.30	3.16
	L0000122	396785.38	3754955.71	33.90	3.40	0.03704	24.29		11.30	3.16
	L0000123	396785.67	3754980.00	33.37	3.40	0.03704	24.29		11.30	3.16
	L0000124	396785.96	3755004.28	33.30	3.40	0.03704	24.29		11.30	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALR1	L0000125	396786.25	3755028.57	33.41	3.40	0.03704	24.29		11.30	3.16
	L0000126	396786.54	3755052.86	33.52	3.40	0.03704	24.29		11.30	3.16
	L0000127	396786.83	3755077.14	33.61	3.40	0.03704	24.29		11.30	3.16
	L0000128	396787.12	3755101.43	33.69	3.40	0.03704	24.29		11.30	3.16
	L0000129	396787.41	3755125.71	33.77	3.40	0.03704	24.29		11.30	3.16
	L0000130	396787.70	3755150.00	33.81	3.40	0.03704	24.29		11.30	3.16
	L0000131	396791.26	3755168.43	33.96	3.40	0.03704	24.29		11.30	3.16
	L0000132	396812.09	3755155.94	34.10	3.40	0.03704	24.29		11.30	3.16
	L0000133	396832.92	3755143.45	34.08	3.40	0.03704	24.29		11.30	3.16
	L0000134	396853.75	3755130.96	34.01	3.40	0.03704	24.29		11.30	3.16
	L0000135	396874.58	3755118.47	34.01	3.40	0.03704	24.29		11.30	3.16
	L0000136	396895.41	3755105.98	34.06	3.40	0.03704	24.29		11.30	3.16
	L0000137	396916.24	3755093.49	34.11	3.40	0.03704	24.29		11.30	3.16
	L0000138	396937.07	3755081.00	34.10	3.40	0.03704	24.29		11.30	3.16
	L0000139	396957.90	3755068.51	34.11	3.40	0.03704	24.29		11.30	3.16
	L0000140	396978.73	3755056.02	34.11	3.40	0.03704	24.29		11.30	3.16
	L0000141	396999.56	3755043.53	34.10	3.40	0.03704	24.29		11.30	3.16
	L0000142	397020.39	3755031.04	34.13	3.40	0.03704	24.29		11.30	3.16
	L0000143	397041.22	3755018.55	34.18	3.40	0.03704	24.29		11.30	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALR2	L0000144	396693.54	3754976.82	33.23	3.40	0.12500	18.19		8.46	3.16
	L0000145	396678.28	3754986.72	33.28	3.40	0.12500	18.19		8.46	3.16
	L0000146	396663.02	3754996.63	33.34	3.40	0.12500	18.19		8.46	3.16
	L0000147	396647.76	3755006.54	33.35	3.40	0.12500	18.19		8.46	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALR2	L0000148	396632.50	3755016.44	33.33	3.40	0.12500	18.19		8.46	3.16
	L0000149	396617.25	3755026.35	33.33	3.40	0.12500	18.19		8.46	3.16
	L0000150	396601.99	3755036.26	33.35	3.40	0.12500	18.19		8.46	3.16
	L0000151	396586.73	3755046.16	33.41	3.40	0.12500	18.19		8.46	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HALR3	L0000152	396570.83	3755058.21	33.48	3.40	0.09091	18.19		8.46	3.16
	L0000153	396555.64	3755068.24	33.53	3.40	0.09091	18.19		8.46	3.16
	L0000154	396540.46	3755078.26	33.54	3.40	0.09091	18.19		8.46	3.16
	L0000155	396525.28	3755088.28	33.59	3.40	0.09091	18.19		8.46	3.16
	L0000156	396510.10	3755098.31	33.65	3.40	0.09091	18.19		8.46	3.16
	L0000157	396494.92	3755108.33	33.69	3.40	0.09091	18.19		8.46	3.16
	L0000158	396479.74	3755118.36	33.76	3.40	0.09091	18.19		8.46	3.16
	L0000159	396464.56	3755128.38	33.79	3.40	0.09091	18.19		8.46	3.16
	L0000160	396448.19	3755134.51	33.83	3.40	0.09091	18.19		8.46	3.16
	L0000161	396430.00	3755134.67	33.90	3.40	0.09091	18.19		8.46	3.16
	L0000162	396411.81	3755134.84	33.96	3.40	0.09091	18.19		8.46	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR3	L0000169	396632.53	3754698.61	32.73	3.40	0.10000	24.29		11.30	3.16
	L0000170	396608.24	3754698.73	32.75	3.40	0.10000	24.29		11.30	3.16
	L0000171	396583.95	3754698.86	32.78	3.40	0.10000	24.29		11.30	3.16
	L0000172	396559.66	3754698.99	32.82	3.40	0.10000	24.29		11.30	3.16
	L0000173	396535.38	3754699.12	32.88	3.40	0.10000	24.29		11.30	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR3	L0000174	396511.09	3754699.25	32.90	3.40	0.10000	24.29		11.30	3.16
	L0000175	396486.80	3754699.37	32.91	3.40	0.10000	24.29		11.30	3.16
	L0000176	396462.51	3754699.50	32.91	3.40	0.10000	24.29		11.30	3.16
	L0000177	396438.23	3754699.63	32.92	3.40	0.10000	24.29		11.30	3.16
	L0000178	396413.94	3754699.76	32.89	3.40	0.10000	24.29		11.30	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR2	L0000179	396774.07	3754717.38	32.58	3.40	0.16667	24.29		11.30	3.16
	L0000180	396751.24	3754709.11	32.61	3.40	0.16667	24.29		11.30	3.16
	L0000181	396728.40	3754700.83	32.65	3.40	0.16667	24.29		11.30	3.16
	L0000182	396704.22	3754700.48	32.66	3.40	0.16667	24.29		11.30	3.16
	L0000183	396679.93	3754700.73	32.68	3.40	0.16667	24.29		11.30	3.16
	L0000184	396655.64	3754700.98	32.72	3.40	0.16667	24.29		11.30	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR1	L0000185	396796.86	3754724.51	32.62	3.40	0.08333	24.29		11.30	3.16
	L0000186	396819.60	3754733.04	32.59	3.40	0.08333	24.29		11.30	3.16
	L0000187	396842.34	3754741.57	32.65	3.40	0.08333	24.29		11.30	3.16
	L0000188	396865.08	3754750.10	32.72	3.40	0.08333	24.29		11.30	3.16
	L0000189	396887.82	3754758.63	32.81	3.40	0.08333	24.29		11.30	3.16
	L0000190	396910.56	3754767.17	32.89	3.40	0.08333	24.29		11.30	3.16
	L0000191	396933.30	3754775.70	33.02	3.40	0.08333	24.29		11.30	3.16
	L0000192	396956.04	3754784.23	33.27	3.40	0.08333	24.29		11.30	3.16
	L0000193	396978.78	3754792.76	33.86	3.40	0.08333	24.29		11.30	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR1	L0000194	397001.52	3754801.29	34.14	3.40	0.08333	24.29		11.30	3.16
	L0000195	397024.26	3754809.83	33.90	3.40	0.08333	24.29		11.30	3.16
	L0000196	397047.00	3754818.36	33.65	3.40	0.08333	24.29		11.30	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
WDRR1	L0000209	396784.40	3754709.06	32.65	3.40	0.07692	24.29		11.30	3.16
	L0000210	396784.17	3754684.77	32.54	3.40	0.07692	24.29		11.30	3.16
	L0000211	396783.93	3754660.48	32.45	3.40	0.07692	24.29		11.30	3.16
	L0000212	396783.69	3754636.20	32.43	3.40	0.07692	24.29		11.30	3.16
	L0000213	396783.46	3754611.91	32.36	3.40	0.07692	24.29		11.30	3.16
	L0000214	396783.22	3754587.62	32.32	3.40	0.07692	24.29		11.30	3.16
	L0000215	396782.98	3754563.34	32.23	3.40	0.07692	24.29		11.30	3.16
	L0000216	396782.75	3754539.05	32.15	3.40	0.07692	24.29		11.30	3.16
	L0000217	396782.51	3754514.76	32.08	3.40	0.07692	24.29		11.30	3.16
	L0000218	396782.27	3754490.48	32.05	3.40	0.07692	24.29		11.30	3.16
	L0000219	396782.04	3754466.19	32.01	3.40	0.07692	24.29		11.30	3.16
	L0000220	396781.80	3754441.90	31.93	3.40	0.07692	24.29		11.30	3.16
	L0000221	396781.56	3754417.61	31.87	3.40	0.07692	24.29		11.30	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR4	L0000235	396389.77	3754700.85	32.86	3.40	0.07143	24.29		11.30	3.16
	L0000236	396365.62	3754703.31	32.82	3.40	0.07143	24.29		11.30	3.16
	L0000237	396341.53	3754706.42	32.82	3.40	0.07143	24.29		11.30	3.16
	L0000238	396317.44	3754709.52	32.86	3.40	0.07143	24.29		11.30	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SAGR4	L0000239	396293.35	3754712.62	32.77	3.40	0.07143	24.29		11.30	3.16
	L0000240	396269.26	3754715.73	32.71	3.40	0.07143	24.29		11.30	3.16
	L0000241	396245.17	3754718.83	32.75	3.40	0.07143	24.29		11.30	3.16
	L0000242	396221.05	3754721.38	32.72	3.40	0.07143	24.29		11.30	3.16
	L0000243	396196.76	3754721.53	32.68	3.40	0.07143	24.29		11.30	3.16
	L0000244	396172.47	3754721.68	32.65	3.40	0.07143	24.29		11.30	3.16
	L0000245	396148.18	3754721.82	32.61	3.40	0.07143	24.29		11.30	3.16
	L0000246	396123.90	3754721.97	32.57	3.40	0.07143	24.29		11.30	3.16
	L0000247	396099.61	3754722.11	32.53	3.40	0.07143	24.29		11.30	3.16
	L0000248	396075.32	3754722.26	32.48	3.40	0.07143	24.29		11.30	3.16

Source Pathway

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Variable Emissions

Source Pathway

Hour / Day-of-Week Emission Rate Variation

Scenario: Scenario 3

Source ID: CONST

Hour	Mon	Tues	Wed	Thr	Fri	Sat	Sun
1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
8:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
9:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
10:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
11:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
12:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
13:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
14:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
15:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
16:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
17:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source ID: HALR1

Hour	Mon	Tues	Wed	Thr	Fri	Sat	Sun
1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
8:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
9:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
10:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
11:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
12:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
13:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
14:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
15:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
16:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
17:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: Scenario 3

Source ID: **SAGR1**

Hour	Mon	Tues	Wed	Thr	Fri	Sat	Sun
1:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
8:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
9:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
10:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
11:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
12:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
13:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
14:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
15:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
16:00	3.73	3.73	3.73	3.73	3.73	0.00	0.00
17:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Receptor Network ID	Grid Origin X Coordinate [m]	Grid Origin Y Coordinate [m]	No. of X-Axis Receptors	No. of Y-Axis Receptors	Spacing for X-Axis [m]	Spacing for Y-Axis [m]
UCART1	396050.00	3754400.00	27	27	50.00	50.00

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	396359.30	3754638.82		32.51	
2	396998.06	3754826.96		33.56	
3	396832.12	3754939.42		33.61	
4	396806.31	3754968.92		33.66	
5	396294.97	3755128.11		33.81	
6	396292.44	3754939.64		33.38	
7	396292.44	3754810.24		33.05	
8	396290.91	3754727.55		32.79	
9	396431.66	3754681.07		32.97	
10	396647.40	3754685.12		32.56	
11	396727.12	3754740.07		32.84	
12	396726.22	3754914.82		33.28	
13	396370.99	3755104.47		34.14	
14	396369.64	3754929.71		33.67	
15	396365.59	3754753.61		33.27	

Plant Boundary Receptors

Receptor Pathway

Cartesian Plant Boundary

Primary

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	396381.56	3754716.43	FENCEPRI	32.81	
2	396398.35	3754714.70	FENCEPRI	32.80	
3	396710.06	3754714.70	FENCEPRI	32.74	
4	396723.95	3754716.43	FENCEPRI	32.71	
5	396723.95	3754945.92	FENCEPRI	33.24	
6	396457.44	3755124.23	FENCEPRI	33.79	
7	396448.82	3755125.89	FENCEPRI	33.82	
8	396381.56	3755125.89	FENCEPRI	33.96	

Intermediate

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	396417.83	3754714.70	FENCEINT	32.55	
2	396437.31	3754714.70	FENCEINT	32.61	
3	396456.80	3754714.70	FENCEINT	32.63	
4	396476.28	3754714.70	FENCEINT	32.66	
5	396495.76	3754714.70	FENCEINT	32.74	
6	396515.24	3754714.70	FENCEINT	32.81	
7	396534.72	3754714.70	FENCEINT	32.78	
8	396554.21	3754714.70	FENCEINT	32.88	
9	396573.69	3754714.70	FENCEINT	32.85	
10	396593.17	3754714.70	FENCEINT	32.73	
11	396612.65	3754714.70	FENCEINT	32.77	
12	396632.13	3754714.70	FENCEINT	32.78	
13	396651.61	3754714.70	FENCEINT	32.79	
14	396671.10	3754714.70	FENCEINT	32.76	
15	396690.58	3754714.70	FENCEINT	32.76	
16	396723.95	3754735.55	FENCEINT	32.85	
17	396723.95	3754754.68	FENCEINT	32.88	
18	396723.95	3754773.80	FENCEINT	32.90	
19	396723.95	3754792.93	FENCEINT	32.94	
20	396723.95	3754812.05	FENCEINT	33.00	
21	396723.95	3754831.18	FENCEINT	33.03	
22	396723.95	3754850.30	FENCEINT	33.07	
23	396723.95	3754869.42	FENCEINT	33.15	
24	396723.95	3754888.55	FENCEINT	33.21	
25	396723.95	3754907.67	FENCEINT	33.25	

Receptor Pathway

26	396723.95	3754926.80	FENCEINT	33.30	
27	396708.27	3754956.41	FENCEINT	33.27	
28	396692.60	3754966.90	FENCEINT	33.28	
29	396676.92	3754977.39	FENCEINT	33.30	
30	396661.24	3754987.88	FENCEINT	33.34	
31	396645.56	3754998.36	FENCEINT	33.41	
32	396629.89	3755008.85	FENCEINT	33.40	
33	396614.21	3755019.34	FENCEINT	33.31	
34	396598.53	3755029.83	FENCEINT	33.26	
35	396582.86	3755040.32	FENCEINT	33.30	
36	396567.18	3755050.81	FENCEINT	33.42	
37	396551.50	3755061.30	FENCEINT	33.47	
38	396535.83	3755071.79	FENCEINT	33.45	
39	396520.15	3755082.27	FENCEINT	33.46	
40	396504.47	3755092.76	FENCEINT	33.54	
41	396488.79	3755103.25	FENCEINT	33.59	
42	396473.12	3755113.74	FENCEINT	33.76	
43	396432.01	3755125.89	FENCEINT	33.90	
44	396415.19	3755125.89	FENCEINT	33.97	
45	396398.38	3755125.89	FENCEINT	33.97	
46	396381.56	3755106.39	FENCEINT	33.95	
47	396381.56	3755086.89	FENCEINT	33.76	
48	396381.56	3755067.40	FENCEINT	33.61	
49	396381.56	3755047.90	FENCEINT	33.55	
50	396381.56	3755028.40	FENCEINT	33.49	
51	396381.56	3755008.90	FENCEINT	33.42	
52	396381.56	3754989.40	FENCEINT	33.40	
53	396381.56	3754969.91	FENCEINT	33.34	
54	396381.56	3754950.41	FENCEINT	33.26	
55	396381.56	3754930.91	FENCEINT	33.19	
56	396381.56	3754911.41	FENCEINT	33.14	
57	396381.56	3754891.91	FENCEINT	33.04	
58	396381.56	3754872.41	FENCEINT	32.98	
59	396381.56	3754852.92	FENCEINT	32.95	
60	396381.56	3754833.42	FENCEINT	32.85	
61	396381.56	3754813.92	FENCEINT	32.79	
62	396381.56	3754794.42	FENCEINT	32.74	
63	396381.56	3754774.92	FENCEINT	32.63	
64	396381.56	3754755.43	FENCEINT	32.58	
65	396381.56	3754735.93	FENCEINT	32.73	

Receptor Pathway

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: PICO_v9.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: PICO_v9.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 48.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2010			
Upper Air		2010			
On-Site		2010			

Data Period

Data Period to Process

Start Date: 1/1/2010 Start Hour: 1 End Date: 12/31/2016 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: DOWNEY PROLOGIS DISP CONSTRUCTION.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
Period	ALL	N/A	PE00GALL.PLT

HARP Proje AM

PROJECT INFORMATION
HARP Version: 22118
Project Name: DOWNEY PROLOGIS RISK CONST 1
Project Ou sktop\HRA\ PROLOGIS CONST 1
HARP Database: NA

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	PolID	PolAbbrev	Multi	Annual Em (lbs/yr)	MaxHr Em (lbs/hr)	MWAF
CONST	9901	DieselExhP	1	220.7559	0.251352	1
HALR1	9901	DieselExhP	1	30.93265	0.056022	1
SAGR1	9901	DieselExhP	1	25.91091	0.046927	1

Background

PolID	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

HARP Proje AM

PROJECT INFORMATION
HARP Version: 22118
Project Name: DOWNEY PROLOGIS CONST 2
Project Out ktop\HRA\I PROLOGIS CONST 2
HARP Database: NA

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	PolID	PolAbbrev	Multi	Annual Em (lbs/yr)	MaxHr Em (lbs/hr)	MWAF
CONST	9901	DieselExhP	1	151.4953	0.074547	1
HALR1	9901	DieselExhP	1	4.62553	0.024932	1
SAGR1	9901	DieselExhP	1	3.898069	0.021018	1

Background

PolID	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

HARP Project Sum AM

PROJECT INFORMATION
HARP Version: 22118
Project Name: DOWNEY PROLOGIS RISK OPS
Project Output Di sktop\HRA\DOV PROLOGIS RISK OPS
HARP Database: NA

EMISSION INVENTORY
No. of Pollutants:18
No. of Background Pollutants:0

Emissions

ScrID	StkID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
HALR1	0	9901	DieselExhPM	1	0.161410997	4.69E-05	1
HALR2	0	9901	DieselExhPM	1	0.023237508	6.76E-06	1
HALR3	0	9901	DieselExhPM	1	0.016053831	4.67E-06	1
SAGR1	0	9901	DieselExhPM	1	0.107914206	3.18E-05	1
SAGR2	0	9901	DieselExhPM	1	0.066538171	1.96E-05	1
SAGR3	0	9901	DieselExhPM	1	0.033269085	9.81E-06	1
SAGR4	0	9901	DieselExhPM	1	0.013162321	3.88E-06	1
WDRR1	0	9901	DieselExhPM	1	0.023433673	6.91E-06	1
HALDR1	0	9901	DieselExhPM	1	0.038158832	1.08E-05	1
HALDR2	0	9901	DieselExhPM	1	0.019291004	5.47E-06	1
HALDR3	0	9901	DieselExhPM	1	0.028518194	8.09E-06	1
SAGDR1	0	9901	DieselExhPM	1	0.057019364	1.62E-05	1
SAGDR2	0	9901	DieselExhPM	1	0.065160645	1.85E-05	1
DOCK1	0	9901	DieselExhPM	1	0.157599892	4.47E-05	1
DOCK2	0	9901	DieselExhPM	1	0.157599892	4.47E-05	1
DOCK3	0	9901	DieselExhPM	1	0.157599892	4.47E-05	1
DOCK4	0	9901	DieselExhPM	1	0.157599892	4.47E-05	1
DOCK5	0	9901	DieselExhPM	1	0.157599892	4.47E-05	1

Background

PolID	PolAbb	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: mdb
Health Table Version: HEALTH23216
Official: True

PolID	Inh	PolAbbrev	InhCancer	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901		DieselExhPM	1.1	5		

Appendix C

Cultural Resources Study

HELIX Environmental Planning

Prologis Stewart and Gray Road Warehouse Project

Draft Cultural Resources Study

March 2023 | 04967.00001.001

Prepared for and submitted to:

City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Project Applicant:

Prologis, Inc.
2141 Rosecrans Avenue
Suite 1151
El Segundo, CA 90245

Prepared by:

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

National Archaeological Database Information

Authors:	Trevor Gittelhough, M.A., RPA
Firm:	HELIX Environmental Planning, Inc.
Client/Project:	City of Downey / Prologis Stewart and Gray Road Warehouse Project
Report Date:	March 2023
Report Title:	Prologis Stewart and Gray Road Warehouse Project, City of Downey, Los Angeles County, California
Submitted to:	City of Downey
Type of Study:	Cultural Resources Survey
New Sites:	None
Updated Sites:	None
USGS Quad:	Whittier 7.5' Quadrangle
Acreage:	Approximately 29.16 acres
Key Words:	Prologis Stewart and Gray Road Warehouse Project; Los Angeles County; Downey; Hall Road; Stewart and Gray Road; Woodruff Avenue; Santa Gertrudes (McFarland and Downey) Land Grant; negative archaeological survey

Table of Contents

Section **Page**

EXECUTIVE SUMMARY ES-1

1.0 INTRODUCTION 1

1.1 Project Location 1
1.2 Project Description 1
1.3 Regulatory Framework 1
1.3.1 Federal 2
1.3.2 State 2
1.3.3 Integrity 3
1.3.4 Native American Heritage Values 3
1.4 Project Personnel 3

2.0 PROJECT SETTING 4

2.1 Natural Setting 4
2.2 Cultural Setting 4
2.2.1 Prehistoric Period 4
2.2.2 Ethnohistory 6
2.2.3 Historical Background 8

3.0 METHODS 11

3.1 Archival Research and Contact Program 11

4.0 RESULTS 11

4.1 Records Search 11
4.1.1 Previous Surveys 11
4.1.2 Previously Recorded Resources 13
4.2 Built Environment Resource Directory 14
4.3 Other Archival Research 14
4.4 Native American Contact Program 15

5.0 SUMMARY AND MANAGEMENT RECOMMENDATIONS 15

5.1 Management Recommendations 15

6.0 REFERENCES 17

Table of Contents (cont.)

LIST OF APPENDICES

A Resumes of Key Personnel
B Records Search Results (Confidential, bound separately)
C Native American Correspondence (Confidential, bound separately)

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	USGS Topography	2
3	Aerial Photograph	2

LIST OF TABLES

No.	Title	Page
1	Prehistoric Cultural Chronology	5
2	Previous Studies within One Mile of the Project Area	12
3	Previously Recorded Resources within One Mile of the Project Area	13

Acronyms and Abbreviations

AB	Assembly Bill
AMSL	above mean sea level
BERD	Built Environment Resource Directory
BP	Before Present
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHRIS	California Historical Resources Information System
CRHR	California Register of Historical Resources
HELIX	HELIX Environmental Planning, Inc.
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
OHP	Office of Historic Preservation
PRC	Public Resources Code
project	Prologis Stewart and Gray Road Warehouse Project
SCCIC	South Central Coastal Information Center
TCP	Traditional Cultural Properties
TCR	Tribal Cultural Resources
USGS	U.S. Geological Survey

This page intentionally left blank

EXECUTIVE SUMMARY

HELIX Environmental Planning, Inc. (HELIX) was contracted by the City of Downey to provide cultural resources services for the Prologis Stewart and Gray Road Warehouse Project (project) in the City of Downey, Los Angeles County, California. The project is a proposed redevelopment of the approximately 29-acre property to construct a concrete tilt-up building for warehouse/logistics, and an ancillary truck workshop facility. A cultural resources study, including a records search, Sacred Lands File search, Native American outreach, and a review of historic aerial photographs and maps, was conducted for the project area. This report details the methods and results of the cultural resources study and has been prepared to comply with the California Environmental Quality Act (CEQA).

The records search was requested from the South Central Coastal Information Center (SCCIC) on February 17, 2022 and received on March 11, 2022. It indicated that 18 previous cultural resources studies have been conducted within one mile of the project area, none of which occurred within the project area itself. The records search results also indicated that a total of 10 cultural resources have been previously recorded within one mile of the project area, all of them historic in age; however, no sites have been recorded within the project area.

Due to the developed nature of the project site and complete lack of exposed ground surface, the investigations did not include an intensive pedestrian survey of the project area; however, archival research, including a review of historic aerials, topographic maps, parcel maps, plat maps, assessor data, and historic directories, was undertaken.

Based on the results of the current study, no archaeological resources will be affected by the Prologis Stewart and Gray Road Warehouse Project; historic built environment resources are addressed in a separate study. However, the original ground surface could not be observed, as the property has been completed developed for decades. Additionally, the project area is located within alluvial soils, where there is a potential for buried cultural resources. Based on this, it is recommended that an archaeological and Native American monitoring program be implemented for ground-disturbing activities. The monitoring program would include attendance by the archaeologist and Native American monitor at a preconstruction meeting with the grading contractor and the presence of archaeological and Native American monitors during initial ground-disturbing activities on site. Both archaeological and Native American monitors would have the authority to temporarily halt or redirect grading and other ground-disturbing activity in the event that cultural resources are encountered. If significant cultural material is encountered, the project archaeologist will coordinate with the Monitoring Tribes, the applicant, and City of Downey staff to develop and implement appropriate treatment measures to avoid or mitigate impacts.

This page intentionally left blank

1.0 INTRODUCTION

The City of Downey (City) contracted HELIX Environmental Planning, Inc. (HELIX) to provide cultural resources services for the Prologis Stewart and Gray Road Warehouse Project (project) in the City of Downey, Los Angeles County, California. The project is a proposed redevelopment of the approximately 29-acre property to construct a concrete tilt-up building for warehouse/logistics, and an ancillary truck workshop facility. A cultural resources study, including a records search, Sacred Lands File search, Native American outreach, and a review of historic aerial photographs and maps, was conducted for the project area. This report details the methods and results of the cultural resources study and has been prepared to comply with the California Environmental Quality Act (CEQA).

1.1 PROJECT LOCATION

The project is located in the City of Downey, in Los Angeles County, west of Interstate (I)-5 and I-605 and north of I-105 (Figure 1, *Regional Location*), at the northwest corner of the intersection of Stewart and Gray Road and Woodruff Avenue (Figure 2, *USGS Topography*). The 29.16-acre project site consists of five parcels (Assessor's Parcel Numbers: 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-017, and 6284-019-016), located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart and Gray Road. The project is bordered by Hall Road to the north, commercial buildings to the east, Stewart and Gray Road to the south, and industrial buildings to the west (Figure 3, *Aerial Photograph*).

1.2 PROJECT DESCRIPTION

The proposed project would include the demolition of the existing five buildings (totaling approximately 433,000 square feet) and the construction of an approximately 510,110-square foot industrial concrete tilt-up building for warehouse/logistics uses and a 25,000-square foot ancillary truck workshop facility, together totaling 535,110 square feet. The project would include 614 auto parking spaces, 215 trailer and/or container parking spaces, and 109 dock loading doors.

The new industrial building is intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The facility will also include an office and mezzanine area. On-site activities will include the following: general industrial/warehouse with refrigeration and cold storage components for the purposes of receiving, storing, shipping of food and/or beverage products, storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery. The office space is intended to be used for office uses ancillary to the warehouse operations. The 25,000-square foot truck workshop building would be ancillary to the warehouse/distribution/ logistics operation for purposes of maintaining a truck or van fleet, trailers, and associated equipment operating the facility.

1.3 REGULATORY FRAMEWORK

Cultural resources are defined as buildings, sites, structures, or objects, each of which may have historical, architectural, archaeological, cultural, and/or scientific importance. Significant resources are those resources that have been found eligible for the California Register of Historical Resources (CRHR) or National Register of Historic Places (NRHP), as applicable.

1.3.1 Federal

Federal regulations that would be applicable to the project if there is a federal nexus (e.g., permitting or funding from a federal agency) consist of the National Historic Preservation Act (NHPA) and its implementing regulations (16 United States Code 470 et seq., 36 Code of Federal Regulations [CFR] Part 800). Section 106 of the NHPA requires federal agencies to take into account the effects of their undertakings on "historic properties", that is, properties (either historic or archaeological) that are eligible for the NRHP. To be eligible for the NRHP, a historic property must be significant at the local, state, or national level under one or more of the following four criteria:

A. associated with events that have made a significant contribution to the broad patterns of our history;

B. associated with the lives of persons significant in our past;

C. embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master, or that possesses high artistic values, or that represents a significant and distinguishable entity whose components may lack individual distinction; and/or

D. has yielded, or may be likely to yield, information important in prehistory or history.

1.3.2 State

The California Environmental Quality Act (CEQA), Public Resources Code (PRC) 21084.1, and California Code of Regulations (CCR) Title 14 Section 15064.5, address determining the significance of impacts to archaeological and historic resources and discuss significant cultural resources as "historical resources," which are defined as:

- resource(s) listed or determined eligible by the State Historical Resources Commission for listing in the CRHR (14 CCR Section 15064.5[a][1])

- resource(s) either listed in the National Register of Historic Places (NRHP) or in a "local register of historical resources" or identified as significant in a historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, unless "the preponderance of evidence demonstrates that it is not historically or culturally significant" (14 CCR Section 15064.5[a][2])

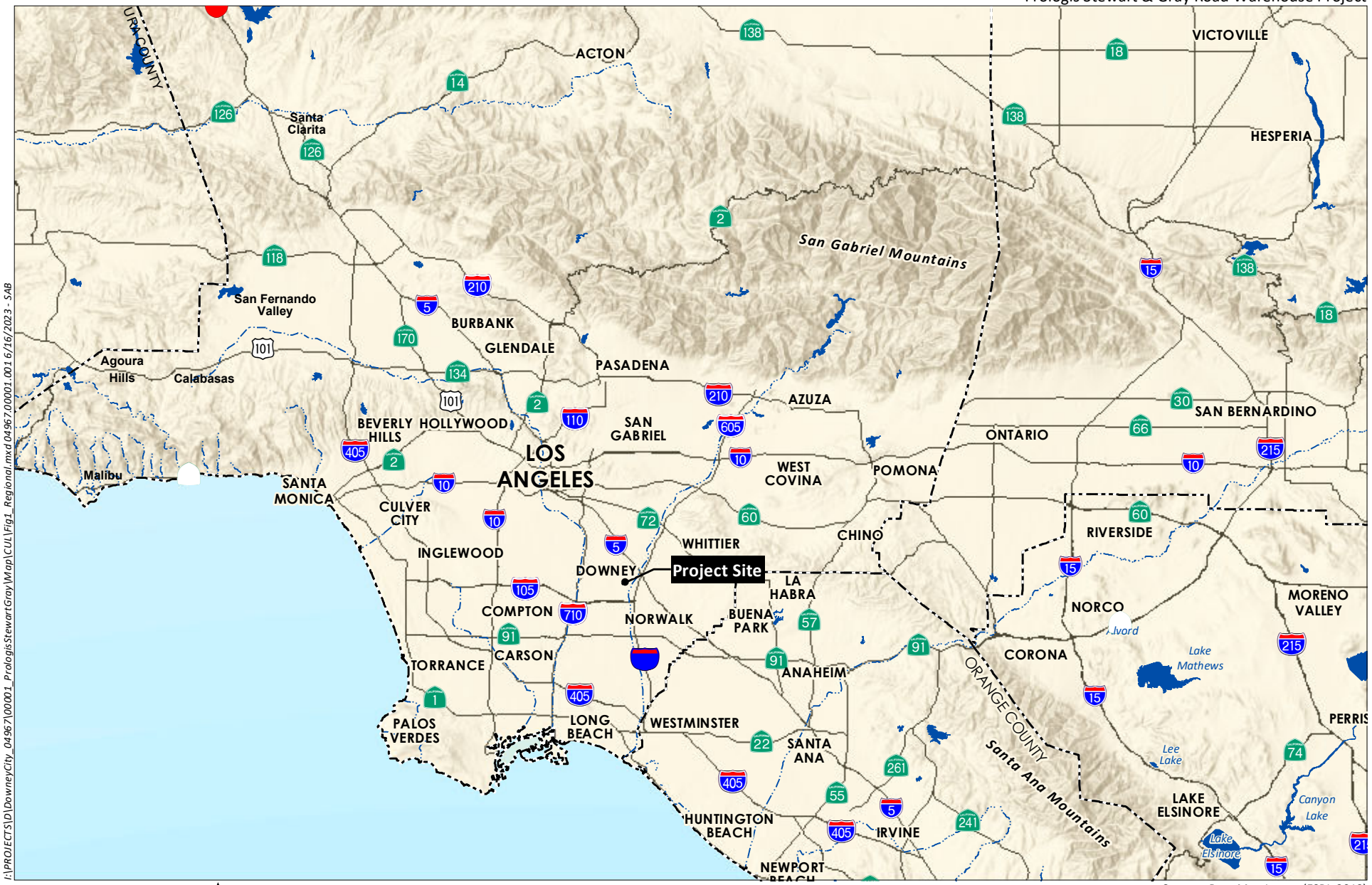
- resources determined by the Lead Agency to meet the criteria for listing on the CRHR (14 CCR Section 15064.5[a][3])

For listing in the CRHR, a historical resource must be significant at the local, state, or national level under one or more of the following four criteria:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States;

2. It is associated with the lives of persons important to local, California, or national history;

3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master or possesses high artistic values;



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\CUL\Fig1_Regional.mxd 04967.00001.001 6/16/2023 - SAB

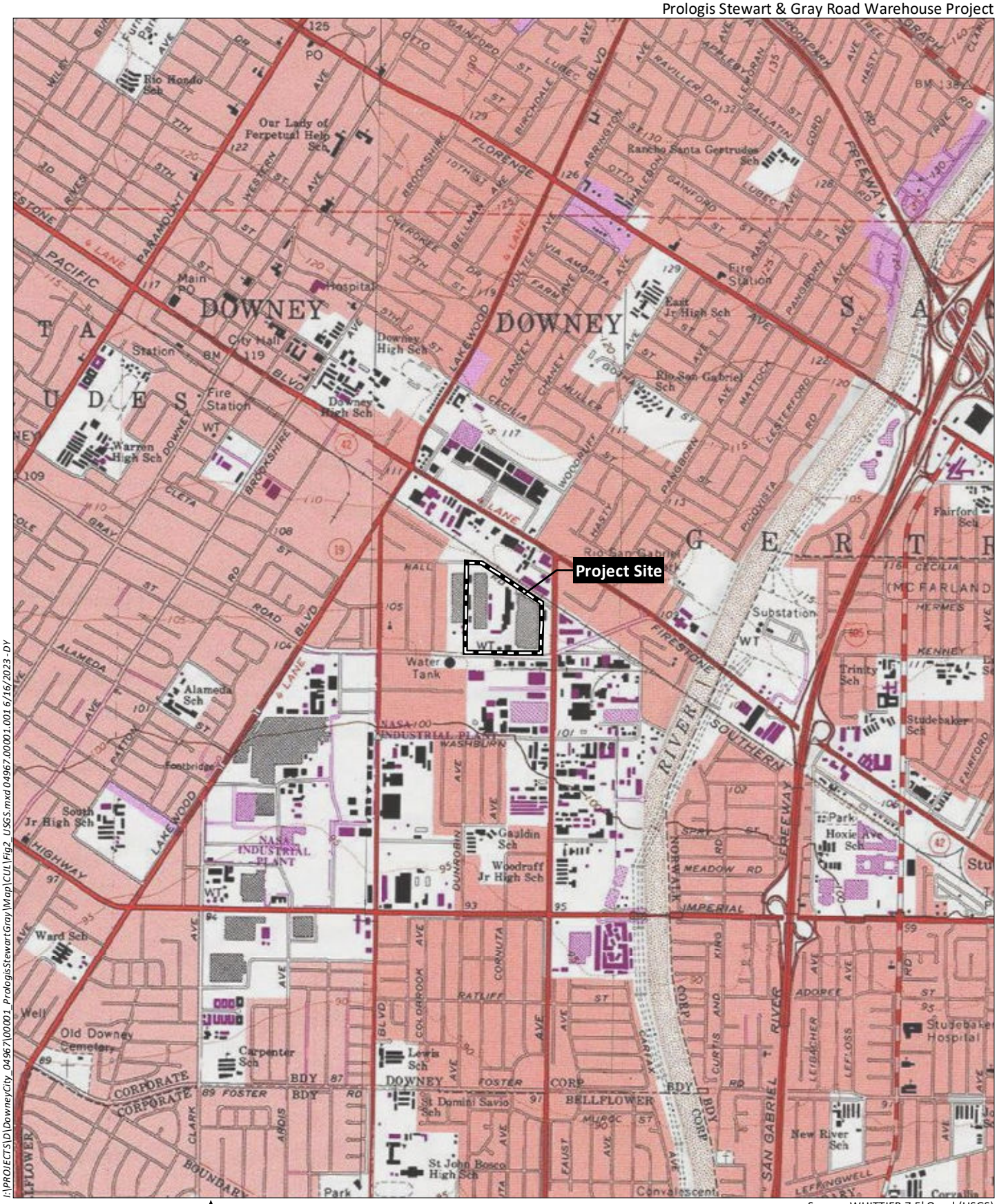
0 10 Miles

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\CUL\Fig2_USGS.mxd 04967.00001.001 6/16/2023 - DY

0 2,000 Feet

Source: WHITTIER 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2

I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\CUL\Fig3_Aerial.mxd 04967.00001.001 6/16/2023 -DY

0 300 Feet

Source: Aerial (Maxar, 2020)

HELIX Environmental Planning

Aerial Photograph

Figure 3

4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

Under 14 CCR Section 15064.5(a)(4), a resource may also be considered a "historical resource" for the purposes of CEQA at the discretion of the lead agency.

1.3.3 Integrity

All resources that are eligible for listing in the NRHP or CRHR must have integrity, which is the authenticity of a historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance. Resources, therefore, must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. In an archaeological deposit, integrity is assessed with reference to the preservation of material constituents and their culturally and historically meaningful spatial relationships. A resource must also be judged with reference to the particular criteria under which it is proposed for nomination.

1.3.4 Native American Heritage Values

California State Assembly Bill 52 (AB 52) revised PRC Section 21074 to include Tribal Cultural Resources (TCRs) as an area of CEQA environmental impact analysis. As a general concept, a TCR is similar to the federally defined termed Traditional Cultural Properties (TCP); however, it incorporates consideration of local and state significance and required mitigation under CEQA. According to Patricia L. Parker and Thomas F. King (1998), "Traditional" in this context refers to those beliefs, customs, and practices of a living community of people that have been passed down through the generations, usually orally or through practice. The traditional cultural significance of a historic property, then, is derived from the role the property plays in a community's historically rooted beliefs, customs, and practices.

A TCR may be considered significant if it is (i) included in a local or state register of historical resources; (ii) determined by the lead agency to be significant pursuant to criteria set forth in PRC Section 5024.1; (iii) a geographically defined cultural landscape that meets one or more of these criteria; (iv) a historical resource described in PRC Section 21084.1 or a unique archaeological resource described in PRC Section 21083.2; or (v) a non-unique archaeological resource if it conforms with the above criteria.

1.4 PROJECT PERSONNEL

Kassie Sugimoto, M.A. served as principal investigator and cultural resources project manager for the cultural resources study. Trevor Gittelhough, M.A. RPA, served as the primary author of this report. Mary Robbins-Wade, M.A., RPA, provided senior technical oversight. Mx. Gittelhough, Ms. Sugimoto, and Ms. Robbins-Wade all meet the professional qualifications of the Secretary of Interior's Standard and Guidelines for Archaeology.

2.0 PROJECT SETTING

2.1 NATURAL SETTING

The project area is situated within the Los Angeles Basin, a broad, level plain bounded by the Pacific Ocean to the west, the Santa Monica Mountains and Puente Hills to the north, and the Santa Ana Mountains and San Joaquin Hills to the south. It is drained by several major watercourses, including the Los Angeles, Rio Hondo, San Gabriel, and Santa Ana Rivers. The project is located at an elevation of approximately 108 feet above mean sea level (AMSL).

The Los Angeles Basin developed as a result of tectonic forces and the San Andreas fault zone, with subsidence occurring 3 to 18 million years ago (mya) (Critelli et al. 1995). While sediments dating back to the Cretaceous (66 mya) are preserved in the Los Angeles Basin, continuous sedimentation began in the middle Miocene (around 13 mya) (Yerkes et al. 1965). Since that time, sediments have been eroded into the Los Angeles Basin from the surrounding highlands, resulting in thousands of feet of accumulation (Yerkes et al. 1965). Most of these sediments are marine, until the sea level dropped in the Pleistocene, and the deposition of the alluvial sediments that compose the uppermost units in the Los Angeles Basin began.

The surficial geology of the project site is comprised of younger alluvium, which consists of unconsolidated silt, sand, and gravel eroded from the mountains surrounding the Los Angeles Basin and deposited beginning in the Holocene (Yerkes 1960; Yerkes and Campbell 2005). Soils in the vicinity consist primarily of Hueneme, San Emigdio, and Pico series; Hueneme series sediments are comprised of greyish brown loamy fine sand and sandy loam with few rock fragments; San Emigdio series sediments consist of light brownish grey fine sandy loam; Pico series sediments are comprised of greyish brown sandy loam (Natural Resources Conservation Service [NRCS] 1997, 1999, and 2003). All three soil series support grasslands and cultivated agriculture.

2.2 CULTURAL SETTING

2.2.1 Prehistoric Period

Proposed dates for the earliest human occupation in California vary from around 20,000 years ago to 10,000 years ago. Several researchers have argued for the presence of much earlier Pleistocene humans in California (Carter 1957, 1978, 1980; Minshall 1976); however, these sites identified as Pleistocene "early man" are all controversial. The material from the sites is generally considered non-artifactual, and the investigative methodology is often questioned (Moratto 1984). Several chronological sequences have been developed as aids to understanding cultural changes within southern Californian prehistory. By focusing on data synthesis and building upon previous studies, Wallace (1955, 1978) developed a prehistoric chronology for the coastal region of southern California that continues to be used today, while also being applicable to near-coastal and inland areas. Wallace organized his sequence into four periods: Early Man, Milling Stone, Intermediate, and Late Prehistoric. While Wallace's earlier sequence lacked chronological precision due to a paucity of absolute dates, the work of southern California researchers over the past four decades has provided thousands of radiocarbon dates that have alleviated that issue (Byrd and Raab 2007:217). Since his original sequence, there have been several revisions to Wallace's (1955) synthesis using those radiocarbon dates as well as data provided by projectile point assemblages (e.g., Koerper and Drover 1983; Koerper et al. 2002; Mason and Peterson

1994). The regional prehistoric cultural chronology is summarized below in Table 1, *Prehistoric Cultural Chronology* (adapted from Wallace 1955, 1978).

Table 1
PREHISTORIC CULTURAL CHRONOLOGY

Period	Key Characteristics	Date Range
Early Prehistoric	• Diverse mixture of hunting and gathering • Greater emphasis on hunting	Circa 10,000–8,600 BC
Milling Stone	• Subsistence strategies centered on collecting plant foods and small animals • Extended and loosely flexed burials	8,600–1,300 BC
Intermediate	• Shift toward a hunting and maritime subsistence strategy, along with a wider use of plant foods • Trend toward greater adaptation to regional or local resources • Fully flexed burials, placed face-down or face-up, and oriented toward the north or west	1,300 BC–AD 500
Late Prehistoric	• Increase in the use of plant food resources in addition to an increase in land and sea mammal hunting • Increase in the diversity and complexity of material culture • Increased usage of the bow and arrow Increase in population size accompanied by the advent of larger, more permanent villages	AD 500–Historic Contact

The best example of Early Prehistoric Period archaeological evidence in Southern California is in the San Dieguito complex of San Diego County, dating to over 10,000 years ago (Warren 1967; Warren et al. 2004). The San Dieguito Tradition is thought by most researchers to have an emphasis on big game hunting and coastal resources (Warren 1967). The material culture of the San Dieguito complex consists primarily of scrapers, scraper planes, choppers, large blades, and large projectile points. In some areas of California, the Early Prehistoric Period is often referred to as the Paleo-Indian period and is associated with the last Ice Age occurring during the Terminal Pleistocene (pre-10,000 years ago) and the Early Holocene, beginning circa 10,000 years ago (Erlandson 1994, 1997).

The Millingstone Horizon, or Archaic Period, dates from 7,000-8,600 to 1,300-3,000 years ago and is generally consistent with the Oak Grove complex of Santa Barbara, the Topanga complex of Los Angeles, and the La Jolla complex of San Diego (Warren et al. 2004). The Millingstone Horizon is also referred to as the Encinitas Tradition (Warren 1968). The Encinitas tradition is generally "recognized by millingstone assemblages in shell middens, often near sloughs and lagoons" (Moratto 1984:147). According to Wallace, "a changeover from hunting to the collection of seed foods is clearly reflected in the archaeological record for the period between 6000 and 3000 B.C. The importance of seeds in the diet of the prehistoric peoples can be seen in the numbers of food-grinding implements present at their settlements" (Wallace 1978:28). Basin metates, manos, discoidals, a small number of Pinto series and Elko series points, and flexed burials are also characteristic. Most of the archaeological evidence for Archaic Period occupation in southern California is derived from sites located in near-coastal valleys, and around estuaries that are present along the San Diego coast (Warren et al. 2004). In Riverside County, the Archaic Period occupation is represented by diagnostic artifacts and radiocarbon dates identified at

sites situated the within Perris and Domenigoni valleys (Bettinger 1974; Goldberg 2001; Robinson 2001). Archaeological excavations conducted for the Perris Reservoir Project in Perris Valley yielded radiocarbon dates of circa 2,200 Before Present (BP) (Bettinger 1974), and several sites identified during archaeological studies conducted for the Eastside Reservoir (Diamond Valley Lake) Project dated to what the researchers termed the Middle Archaic (7,000 to 4,000 years ago) and Late Archaic (4,000 to 1,500 years ago) periods (Goldberg 2001).

Dates for the Intermediate Horizon vary by locale but can generally be dated to between 2,000 BC and AD 500 (Elsasser 1978). The Intermediate Horizon is consistent with the Hunting Culture of Santa Barbara County and is characterized by the presence of Pinto style points, named after the Pinto Basin in Riverside County, an increased use of the mortar and pestle, and the consumption of fleshier foods such as acorns, as opposed to small, hard seeds (Stickel 1978). This change resulted in the adoption of a more sedentary lifestyle, as seen in the presence of seasonal habitation sites (Van Horn 1980).

The Late Prehistoric period in southern California is characterized by the incursion of Uto-Aztecan-speaking people who occupied large portions of the Great Basin and an area stretching from southern Arizona and northwest and central Mexico into Nevada, Oregon, and Idaho (Miller 1986). The expansion of the Takic group into southern California is unrefined, but several scholars have hypothesized as to when and how the so-called “Uto-Aztecan wedge” occurred. Sutton (2009) argues that the Takic group expanded into southern California from the San Joaquin Valley about 3,500 years ago. Moratto (1984) also proposes that Takic expansion into the Southern Coast region correlates to the end of the Early Period (Late Archaic) circa 3,200 to 3,500 years ago, while Golla (2007) suggests an expansion of Uto-Aztecan speakers into southern California at approximately 2,000 years ago. While the exact chronology of Takic-speaking groups’ immigration to southern California remains uncertain, the beginning of the Late Prehistoric Period is marked by evidence of a number of new tool technologies and subsistence shifts in the archaeological record and is characterized by higher population densities and intensification of social, political, and technological systems. The changes include the production of pottery and the use of the bow and arrow for hunting instead of atlatl and dart, a reduction of shellfish gathering in some areas, an increase in the storage of foodstuffs such as acorns, and new traits such as the cremation of the dead (Gallegos 2002; McDonald and Eighmey 1998).

Native American population figures in the region substantially increased toward the end of the Late Prehistoric Period. After AD 1600, a change occurred in settlement and subsistence patterns, and land use intensified in the region, which was reflected into the ethnohistoric period (Bean et al. 1991; Goldberg 2001; Wilke 1974, 1978).

2.2.2 Ethnohistory

2.2.2.1 Gabrieleño

The project site is located within the region that has traditionally been occupied by the Gabrieleño people (also spelled as Gabrieleno or Gabrielino; Bean and Smith 1978:538; Kroeber 1925: Plate 57). Other Indigenous groups in the surrounding areas include the Chumash to the north and northwest, the Tataviam/Alliklik to the north, the Serrano to the east, and the Luiseño and Juaneño to the south. Interactions between these groups are well-documented, comprised primarily of trade and intermarriage.

The name Gabrieleño identifies the Indigenous people who were administered by the Spanish missionaries settled at Mission San Gabriel. This group is now considered to have a regional dialect of the Gabrielino language, along with the Santa Catalina Island and San Nicolas Island dialects (Bean and Smith 1978:538). In the post-European contact period, Mission San Gabriel included natives of the greater Los Angeles area, while also including members of surrounding Indigenous groups from other areas such as Kitanemuk, Serrano, and Cahuilla. There is little evidence that the people we call Gabrieleño had a broad term for their group (Dakin 1978:222); rather, they identified themselves as an inhabitant of a specific community with locational suffixes (e.g., a resident of Yaanga was called a Yabit, much the same way that a resident of New York is called a New Yorker; Johnston 1962:10).

Several native words have been suggested as labels for the broader group of Indigenous people from the Los Angeles region. These include Tongva (or Tong-v; Merriam 1955:7–86) and Kizh (Kij or Kichereno; Heizer 1968:105), though evidence indicated that these terms referred to local places or smaller groups of people within the larger group that we now call Gabrieleño. Nevertheless, many present-day descendants of these people have taken on Tongva as a preferred group name because it has a native rather than Spanish origin (King 1994:12). Thus, the term Gabrieleño /Tongva is used in the remainder of this report when discussing the Indigenous people of the Los Angeles Basin and their descendants.

The Gabrieleño/Tongva subsistence economy was centered on hunting and gathering. Due to the rich and varied nature of their environment, the Indigenous population exploited mountains, foothills, valleys, deserts, riparian, estuarine, and open and rocky coastal eco-niches. Acorns served as the staple food, supplemented by the roots, leaves, seeds, and fruits of a variety of flora (e.g., islay, cactus, yucca, sages, and agave). Freshwater and saltwater fish, shellfish, birds, reptiles, and insects, as well as both large and small mammals, were also hunted or collected and served as a large part of their diet (Bean and Smith 1978:546; Kroeber 1925:631–632; McCawley 1996:119–123, 128–131).

A wide variety of tools and implements were used by the Gabrieleño/Tongva to gather and collect food resources. These included the bow and arrow, traps, nets, blinds, throwing sticks and slings, spears, harpoons, and hooks for hunting and fishing. Those groups located near the ocean used oceangoing plank canoes, or ti'at, and tule balsa canoes for fishing, travel, and trade between the mainland and the Channel Islands (McCawley 1996:7). Gabrieleño/Tongva people processed their resources with a variety of tools, including hammerstones and anvils, mortars and pestles, manos and metates, strainers, leaching baskets and bowls, knives, bone saws, and wooden drying racks. Food was likewise consumed from a variety of vessels, with Catalina Island steatite used to make ollas and cooking vessels (Blackburn 1963; Kroeber 1925:629; McCawley 1996:129–138).

At the time of Spanish contact, the basis of Gabrieleño/Tongva religious life was the Chinigchinich cult, centered on the last of a series of heroic mythological figures. Chinigchinich gave instruction on laws and institutions, and also taught the people how to dance, the primary religious act for this society. He later withdrew into heaven, where he rewarded the faithful and punished those who disobeyed his laws (Kroeber 1925:637–638). The Chinigchinich religion seems to have been relatively new when the Spanish arrived. It was spreading south into the southern Takic groups even as Christian missions were being built, and may represent a mixture of native and Christian beliefs and practices (McCawley 1996:143-144).

The burial practices of the Gabrieleño/Tongva included both burials and cremations, with inhumation the more common practice on the Channel Islands and the adjacent mainland coastal areas, while cremation was the primary practice on the remainder of the coast and through the inland areas

(Harrington 1942; McCawley 1996:157). Remains were buried in distinct burial areas, sometimes associated with villages and sometimes with no clear village association (Altschul et al. 2007). Cremation ashes have been found in archaeological contexts buried within stone bowls and in shell dishes (Ashby and Winterbourne 1966:27), as well as scattered among broken ground stone implements (Cleland et al. 2007). Archaeological data corresponds with ethnographic descriptions of an elaborate mourning ceremony that occurred over several days and included a variety of offerings, such as seeds, stone grinding tools, animal skins, baskets, wood tools, shell beads, bone and shell ornaments, and projectile points and knives. Offerings varied, both with the sex of the deceased individual and their status (Dakin 1978:234–365; Johnston 1962:52–54; McCawley 1996:155–165).

2.2.3 Historical Background

The post-contact history of California has been generally divided into three distinct periods, defined primarily by political and socioeconomic control of the region; the Spanish period (1769–1822), the Mexican period (1822–1848), and the American period (1848–present). While explorers from Spain, Russia, and Britain visited California for brief periods of time between 1529 and 1769, it was the establishment of the mission system, beginning with Mission San Diego de Alcalá, which served as the starting point of the Spanish period. Independence from Spain, marked by the signing of the Treaty of Córdoba 1822 and recognition by Isabella II in 1836, is the beginning of the Mexican period, while the signing of the Treaty of Guadalupe Hidalgo in 1848 and the end of the Mexican-American War, signals the beginning of the American period, with California becoming a United States Territory.

2.2.3.1 Spanish Period

Spanish explorers made sailing expeditions along the coast of Southern California between the mid-1500s and mid-1700s. Juan Rodríguez Cabríllo was the first, stopping in 1542 at present-day San Diego Bay. Cabríllo and his crew explored the shorelines of present Catalina Island as well as San Pedro and Santa Monica bays. After Cabrillo, the Spanish naval officer Sebastián Vizcaíno recorded most of the present California and Oregon coastline in the following half-century. Vizcaíno's crew also landed on Santa Catalina Island and at San Pedro and Santa Monica Bays, which is the origin of each of their names. It was based on these explorations by Cabrillo and Vizcaíno that the Spanish crown laid claim to California (Bancroft 1886:96–99; Gumprecht 2001:35).

It took more than 200 years before Spain began the colonization and inland exploration of Alta California. This was marked by the 1769 overland expedition of Captain Gaspar de Portolá, marking the beginning of California's Historic period, which occurred immediately after the King of Spain installed the Franciscan Order to direct religious and colonization matters in assigned territories of the Americas. With a band of 64 soldiers, missionaries, Baja (lower) California Native Americans, and Mexican civilians, Portolá established the Presidio of San Diego, a fortified military outpost, as the first Spanish settlement in Alta California. In July 1769, while Portolá was exploring Southern California, Franciscan Fr. Junípero Serra founded Mission San Diego de Alcalá at Presidio Hill, the first of the 21 missions that would be established in Alta California by the Spanish and the Franciscan Order between 1769 and 1823.

The Portolá expedition reached the present-day boundaries of Los Angeles in August of 1769, marking the first entrance of Europeans to the area. Father Juan Crespí, a member of the expedition, named the campsite by the river Nuestra Señora la Reina de los Angeles de la Porciúncula or "Our Lady the Queen of the Angeles of the Porciúncula." Two years later, Fr. Junípero Serra established another Catholic mission, Mission San Gabriel Arcángel, on September 8, 1771 (Engelhardt 1927). Only a decade later,

a group of Mexican families traveled from Mission San Gabriel Arcángel to establish a new pueblo called El Pueblo de la Reyna de Los Angeles ("the Pueblo of the Queen of the Angels").

2.2.3.2 Mexican Period

The primary emphasis of the Spanish period in California was the construction of missions and their associated presidios in the attempt to integrate the Native American population into Catholicism and communal enterprise. While the crown provided incentives to bring settlers to pueblos or towns, only three pueblos were established during the Spanish period, of which only two were successful and remained as California cities (San José and Los Angeles). Growth within Alta California was kept to a minimum due to several factors, such as the threat of invasion, political dissatisfaction, and unrest among the indigenous population. After more than a decade of intermittent rebellion, New Spain (Mexico and the California territory) won independence from Spain in 1821. The following year the Mexican legislative body in California ended the isolationist policies established by the crown in order to keep Spain's monopoly on trade, and opened California ports to foreign merchants.

Extensive land grants were established in the interior during the Mexican period, in part to increase the population inland from the more settled coastal areas where the Spanish had first concentrated their colonization efforts. Rancho Los Nietos had been granted to Manuel Nieto by Governor Pedro Fages in 1784, during the Spanish Period. Originally containing 43,119 acres, Rancho Los Nietos was the first and largest grant deeded by the King of Spain during this period, containing present-day Anaheim, Artesia, Bellflower, Buena Park, Cerritos, Cypress, Downey, Fullerton, Garden Grove, Huntington Beach, Lakewood, Long Beach, Los Alamitos, Naples, Norwalk, Santa Fe Springs, Seal Beach, Sunset Beach, and Whittier (Clay and Troesken 2005). In 1833, Nieto's heirs petitioned for Rancho Los Nietos to be partitioned into six separate ranchos. The secularization of the missions following Mexico's independence from Spain resulted in the subdivision of former mission lands and the establishment of many additional ranchos throughout California.

During the primacy of the ranchos (1834–1848), landowners focused almost exclusively on the cattle industry, devoting large tracts to grazing. Cattle hides became a primary southern California export, providing a commodity to trade for goods from the east and other areas in the United States and Mexico. The number of non-native inhabitants increased during this period because of the influx of explorers, trappers, and ranchers associated with the land grants. The rising California population contributed to the introduction and rise of diseases foreign to the Native American population, who had none of the immunities to these diseases.

2.2.3.3 American Period

With the Battle of Chino in 1846, war between Mexico and the United States began, starting as a clash between resident Californios and Americans in the San Bernardino area. This battle, was a defeat for the Americans, bolstering the Californios' resolve against American rule and emboldening them to continue the offensive in later battles at Dominguez Field and in San Gabriel (Beattie 1942). Americans, however, were ultimately the victors of this two-year war. The Mexican-American War officially ended with the Treaty of Guadalupe Hidalgo in 1848, which resulted in the annexation of California, bringing California into its American period.

California officially became a state with the Compromise of 1850, which also designated Utah and New Mexico (with present-day Arizona) as U.S. Territories (Waugh 2003). Horticulture and livestock would

continue to dominate the California economy due to the ranchos' supremacy and dependence on cattle through the 1850s. The Gold Rush began in 1848, and with the influx of people seeking gold, cattle were no longer desired mainly for their hides but also as a source of meat and other goods. During the 1850s cattle boom, rancho vaqueros drove large herds from southern to northern California to feed that region's burgeoning mining and commercial boom. Cattle were at first driven along major trails or roads such as the Gila Trail or Southern Overland Trail but were then transported by trains as the railroads began to expand through the state. The cattle boom ended for southern California as neighboring states and territories drove herds to northern California at reduced prices. Operation of the huge ranchos became increasingly difficult, and droughts severely reduced their productivity (Cleland 2005:102–103).

The settlement called El Pueblo de la Reyna de Los Angeles (the Pueblo of the Queen of the Angels) was established in 1781 by 11 Mexican families traveling from Mission San Gabriel. It consisted of a small group of adobe-brick houses and streets and would eventually be known as the Ciudad de Los Angeles (City of Angels), which became incorporated on April 4, 1850, only two years after the Mexican–American War and five months prior to California's achieving statehood. The County of Los Angeles had been previously established on February 18, 1850, as one of the 27 counties established in the months prior to California's acquiring official statehood in the United States. After the United States took possession of California, many of the Mexican ranchos in Los Angeles county stayed intact, as stipulated by the Treaty of Guadalupe Hidalgo; however, a severe drought in the 1860s, as well as expensive fees in proving ownership, resulted in many of the ranchos' being sold or otherwise acquired by Americans. The majority of these were then subdivided into agricultural parcels or towns (Dumke 1944). By 1876, Los Angeles County reportedly had a population of 30,000 (Dumke 1944).

2.2.3.4 Project Vicinity

The project site is located with the large boundaries of what was originally Rancho Los Nietos; however, the ranch was split into six ranchos in 1834, per the petition of Nieto's heirs to Mexican governor José Figueroa: Rancho Los Alamitos, Rancho Las Bolsas, Rancho Los Cerritos, Rancho Los Coyotes, Rancho Palo Alto, and Rancho Santa Gertrudes. The project site is within what became Rancho Santa Gertrudes, granted to Josefa Cota and sold to Lemuel Carpenter in 1843 (Hoffman 1862). A patent was filled by Lemuel Carpenter in 1852, as required by the Land Act of 1851, but he died in 1859. Due to Carpenter's debt at his death, the rancho was sold to John Downey and James McFarland at a sheriff's auction, and the grant was patented to McFarland and Downey in 1870 (Willey 1886). A smaller portion of the rancho was previously filed by Thomas Sanchez Colima in 1852 and was patented to him in 1877 (Willey 1886).

Two settlements were established in the mid-nineteenth century along the Rio Honda River, College Settlement and Gallatin, with Gallatin located where Paramount Boulevard and Florence Avenue cross. In 1873, Downey subdivided 96 acres of the Rancho Santa Gertrudes land he purchased with McFarland and established the city of Downey. In 1883, businessmen of those three settlements were able to convince the Southern Pacific Railroad to route through Downey. The arrival of the Southern Pacific Railroad sparked a boom in development, though it stayed primarily agricultural in nature into the twentieth century. This eventually united the three settlements into a larger settlement of Downey, with the rail depot serving as the center of town. The agricultural focus was citrus, harkening back to John Downey's importation of several orange varieties, but grain, corn, and castor beans were also grown. After World War II, Downey began to shift from its rural origins to a suburban city of industry with a focus on aviation. Factories from Vultee Aircraft had been constructed in the city during World War II, and manufacturing continued after its purchase by North American Aviation, then Rockwell International, and finally Boeing. Before being purchased by Boeing, Rockwell International was a

subcontractor of the National Aeronautics and Space Administration (NASA), and its Downey factory was involved with the development of the Apollo and space shuttle programs. The City was incorporated in 1956, which was followed by the institution of a charter government in 1964.

A historic study was conducted for the project to evaluate the significance of built environment resources. The historic study, which includes the development history of the project site and surrounding area, was submitted to the City and is available separately from this cultural resources report.

3.0 METHODS

3.1 ARCHIVAL RESEARCH AND CONTACT PROGRAM

HELIX requested a records search of the project site and a one-mile radius from the South Central Coastal Information Center (SCCIC) at the University of California, Fullerton, on February 17, 2022. The records search, received on March 11, 2022, covered a one-mile radius around the project area and included the identification of previously recorded cultural resources and the locations and citations for previous cultural resources studies. A review of the California Historical Resources and the state Office of Historic Preservation (OHP) historic properties directories, and Local Register, was also conducted. The records search maps are included as Appendix B (confidential, bound separately) to this report. Historic maps and aerial photographs were reviewed as well.

The Native American Heritage Commission (NAHC) was contacted on February 17, 2022, for a Sacred Lands File search and list of Native American contacts, which were received on April 11, 2022. Letters were sent on April 14, 2022 to the contacts listed by the NAHC. Native American correspondence is included as Appendix C (confidential, bound separately) to this report.

Due to the developed nature of the project site and the total lack of exposed ground surface, a field survey was not undertaken.

4.0 RESULTS

4.1 RECORDS SEARCH

The record search of the California Historical Resources Information System (CHRIS) received from SCCIC in March 2022 covered a one-mile radius around the project area and included the identification of previously recorded cultural resources and information regarding previous cultural resources studies. The records search summary and map are included as Appendix B (Confidential Appendices, bound separately).

4.1.1 Previous Surveys

The records search results identified 18 previous cultural resource studies within the record search limits, none of which occurred within the project site (Table 2, *Previous Studies within One Mile of the Project Area*).

Table 2
PREVIOUS STUDIES WITHIN ONE MILE OF THE PROJECT AREA

Report Number (LA-)	Year	Author	Report Title
00078	1975	Rosen, Martin D.	Evaluation of the Archaeological Resources and Potential Impact of the Proposed Construction of Route 105 Freeway From El Segundo to Norwalk
03356	1982	Romani, John F.	Archaeological Survey Report for the Route I-5 Santa Ana Transportation Corridor Route 405 in Orange County to Route 605 in Los Angeles County P.M. 21.30/44.38 0.00/6.85
03865	1997	Mason, Roger D.	Cultural Resources Records Search and Literature Review Report for a Pacific Bell Mobile Services Telecommunications Facility: La 005-21, in the City of Downey, CA
04082	1982	Romani, John F.	Archaeological Survey Report for the I-5 Transitway
04819	1999	Duke, Curt	Cultural Resource Assessment for Pacific Bell Mobile Services Facility La 660-04, County of Los Angeles, CA
04834	1999	Ashkar, Shahira	Cultural Resources Inventory Report for Williams Communications, Inc. Proposed Fiber Optic Cable System Installation Project, Los Angeles to Anaheim, Los Angeles and Orange Counties
04880	2000	Smith, Philomene, and Adam Sriro	Pavement Rehabilitation Along Route 605 Within the Cities of Long Beach, Lakewood, Cerritos, Downey, Pico Rivera, Santa Fe Springs, Whittier, City of Industry, Baldwin Park, and Irwindale
06227	2002	Kaplan, Mark, Audrey Rutkove, and Chris Johnson	NASA Industrial Plant Historic American Engineering Record (HAER) CA-310, Buildings CA-310-A Through CA-310-H Through Q
07735	2004	Billat, Lorna	Puerto Rico/CA-8236c, 10601 Firestone Blvd, Norwalk, CA, Los Angeles County
07934	2006	Pollock, Katherine H.	Archaeological and Paleontological Assessment of the Proposed Peaker Project Location at Center Substation
08255	2006	Arrington, Cindy, and Nancy Sikes	Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project State of California: Volumes I and II
08892	2006	Bonner, Wayne	Cultural Resources Records Search and Site Visit Results for Royal Street Communications, LLC Telecommunications Facility Candidate LA0282A (Norwalk-SCE MO-T2), 10601 Firestone Boulevard, Norwalk, Los Angeles County, CA
10188	2002	Horne, Melinda C.	Construction of a pipeline located adjacent to the frontage road between Garfield Avenue and Paramount Avenue, and the City's Water Plant Yard located on Stewart and Gray Road between Bellflower Boulevard and Woodruff Avenue in the City of Downey
10285	2009	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for Verizon Wireless Candidate Downey Relo, Downey Norwalk Road, Norwalk, Los Angeles County, CA
10382	2009	Bonner, Wayne, and Kathleen A. Crawford	Direct APE Historic Architectural Assessment for T-Mobile USA Candidate LA33719D (M&M Cut-O-Matic), 9316 Washburn Rd., Downey, Los Angeles County, CA

Report Number (LA-)	Year	Author	Report Title
10525	2003	Strauss, Monica, and Angel Tomes	Cultural Resources Assessment for the Proposed Lakewood Boulevard Street Improvement Project, City of Downey, County of Los Angeles, CA
10633	2010	McKenna, Jeanette A.	A Class III Archaeological Survey Report for the Industrial Property Located at 12214 Lakewood Blvd. in the City of Downey, Los Angeles County, CA
12452	2013	Bonner, Wayne, Sarah Williams, , and Kathleen Crawford	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate LA02994B (LA2994 Downey YMCA) 11531 Downey Avenue, Downey, Los Angeles County, CA

4.1.2 Previously Recorded Resources

The SCCIC has a record of ten previously recorded cultural resources within a one-mile radius of the project, but none have been recorded within the project area (Table 3, *Previously Recorded Resources within One Mile of the Project Area*). All the resources recorded within the one-mile search radius are of historic age and consist of historic structures and buildings and one historic refuse deposit.

Table 3
PREVIOUSLY RECORDED RESOURCES WITHIN ONE MILE OF THE PROJECT AREA

Primary Number (P-19-#)	Trinomial (CA-LAN-#)	Age	Description	Recorder, Date
004777	--	Historic	Refuse scatter	Bizzell, 2016
186110	--	Historic	Union Pacific Railroad and Hobart Tower	Ashkar, 1999; Livingstone and Hamilton, 2002; Smith and Harper, 2007; Feldman, 2018; Kachour, 2019
186947	--	Historic	Historic single-family home at 12406 Lakewood Blvd	Tomes, 2003
186949	--	Historic	Historic single-family home at 12419 Lakewood Blvd	Tomes, 2003
186950	--	Historic	Historic single-family home at 12423 Lakewood Blvd	Tomes, 2003
186951	--	Historic	Historic single-family home at 12427 Lakewood Blvd	Tomes, 2003
188509	--	Historic	T-Mobil LA33719D tower	Crawford, 2009
188775	--	Historic	Consolidated Vultee Aircraft Corporation building	McKenna et al., 2010
190639	--	Historic	The Downey YMCA building	Crawford, 2013
192830	--	Historic	Shree Pashupatinath Foundation building	Lattig, 2018

4.2 BUILT ENVIRONMENT RESOURCE DIRECTORY

HELIX also reviewed the Built Environment Resource Directory (BERD), which contains information on historic-era built environment resources that have been documented in the OHP inventory of non-archaeological resources. The OHP inventory only contains information on resources that have been processed by the office itself, such as those reviewed for eligibility to the NRHP, CRHR, and the California Historic Landmarks programs. This review identified over 100 historic structures within one mile of the project area, none of which were located within the project area, and the vast majority of which are located more than 0.5 mile from the project area.

4.3 OTHER ARCHIVAL RESEARCH

Various additional archival sources were also consulted, including historic topographic maps, aerial imagery, parcel history data, and city directories. These include historic aerials from 1932, 1952, 1953, 1963, and 1972 (UCSB 2022; NETR Online 2022) and several historic USGS topographic maps, including the 1896 and 1902 Downey (1:62,500), the 1923 and 1936 Bell (1:24,000), 1943 Downey (1:62,500), and the 1951 Whittier (1:24,000), as well as the 1965 and 1972 Whittier (1:24,000) topographic maps. Other maps reviewed include the Los Angeles Land Use Maps (Huntington 2022). The purpose of this research was to identify historic structures and land use in the area, as well as the history of development and past disturbances.

The 1896 Downey quadrangle (1:62,500) shows two buildings within the project area, along with two additional buildings that may overlap with the project area's western boundary. These structures are also noted on the 1902 Downey quadrangle (1:62,500). The 1923 Bell quadrangle (1:24,000) shows one building that may overlap in the northwestern corner of the project area, as well as a drainage that runs northeast/southwest through the project area. This drainage is also noted in the 1936 Bell quadrangle (1:24,000), and, in addition to the structure in the northwest, the map also shows the structure in the northeast that is recorded in the 1896 and 1902 Downey quadrangles. The 1943 Downey quadrangle (1:62,500) represents the project area as agriculture and has both structures still present. The 1951 Whittier quadrangle (1:24,000) shows the growth of the area with numerous buildings surrounding the project site, but only two structures, previously noted, are present within the project area itself. The 1965 Whittier quadrangle (1:24,000) further shows the development of the area, with the entire city developed and all but four of the structures currently within the project area noted on the map. By the 1972 Whittier quadrangle (1:24,000), all the structures currently in the project area are recorded.

A review of the Los Angeles Land Use Maps, created by the Los Angeles City Regional Planning Commission, was also undertaken. The 1937 Los Angeles Land Use Map denoted the entire project area as agricultural and showed a home in the northeast portion of the project area. This continues to be true for the 1949 and 1950 maps, though the 1950 Land Use Map has the addition of an old barn being noted near the home in the northeast portion of the project area.

Investigations into the parcel history of the project area identified that the extant buildings were constructed between 1951 and 1979, as per the Los Angeles County Assessor's office public portal. A review of city directories between 1951 and 1968 identified the structures at the address as belonging to Aerojet General Corporation, beginning in 1959, while a review of Parcel Map No. 15573, created in 1983, denoted several easements belonging to the Aerojet General Corporation along the boundaries of the project area.

4.4 NATIVE AMERICAN CONTACT PROGRAM

HELIX contacted the Native American Heritage Commission (NAHC) on February 17, 2022, for a Sacred Lands File search and a list of Native American contacts for the project area. The NAHC indicated in a response dated April 11, 2022, that no known sacred lands or Native American cultural resources are within the project area, but that the area may be sensitive for cultural resources. The NAHC recommended contacting the representatives of eight Native American groups and provided appropriate contact information. Letters were sent on April 14, 2022, to Native American representatives and interested parties identified by the NAHC. As of the time of completion of this report, no responses have been received. If any responses are received, they will be forwarded to City staff.

5.0 SUMMARY AND MANAGEMENT RECOMMENDATIONS

A study was undertaken to identify cultural resources that are present in the Prologis Stewart and Gray Road Warehouse project area and to determine the effects of the project on historical resources. The cultural resources survey did not identify any cultural resources within the project area; therefore, no impacts to cultural resources are anticipated.

The entire project area has been disturbed by nineteenth and twentieth-century agricultural activities, irrigation systems, road construction, transportation (railway) and utility (transmission and gas line) installation, and manufacturing uses; the entire project site is currently developed and has been since the 1950s. Two buildings were identified in the archival research as being present in the project area between 1896 and 1951, both likely associated with the agricultural use of the project area. These were demolished and replaced with the extant buildings, beginning in the early 1950s, with the first structures constructed in 1951 and the latest circa 1967. These facilities were used first by Rheem Manufacturing and then by Aero Jet General Corporation beginning as early as 1959.

5.1 MANAGEMENT RECOMMENDATIONS

The project area is completely developed with no exposed ground surface; thus, the natural ground surface could not be examined for the presence of archaeological resources. The project site is located within younger alluvial sediments, where there is a potential for buried cultural resources. Furthermore, considering the extended presence of parking lots and limited change in the project area since 1952, it is possible that there are cultural resources associated with the small structure identified in the archival research as having been in the northwest corner present under the asphalt. There is also the possibility of similar resources present in the northeast corner, but the large construction in that area of the project area has likely destroyed or heavily impacted any possible resources there.

Due to this potential for buried resources, it is recommended that an archaeological and Native American monitoring program be implemented. The monitoring program would include attendance by the archaeologist and Native American monitor at a pre-construction meeting with the grading contractor and the presence of archaeological and Native American monitors during initial ground-disturbing activities on site. Both archaeological and Native American monitors would have the authority to temporarily halt or redirect grading and other ground-disturbing activity in the event that cultural resources are encountered. If significant cultural material is encountered, the project archaeologist will

coordinate with the Monitoring Tribe, the applicant, and City of Downey staff to develop and implement appropriate avoidance, treatment, or mitigation measures.

In the event that human remains are discovered, the County Coroner shall be contacted. If the remains are determined to be of Native American origin, the Most Likely Descendant, as identified by the NAHC, shall be contacted in order to determine proper treatment and disposition of the remains. All requirements of Health & Safety Code §7050.5 and PRC §5097.98 shall be followed.

Should the project limits change to incorporate new areas of proposed disturbance, an archaeological survey of these areas will be required.

6.0 REFERENCES

Altschul, Jeffrey H., John G. Douglass, Richard Ciolek-Torrello, Sarah Van Galder, Benjamin R. Vargas, Kathleen L. Hull, Donn R. Grenda, Jeffrey Homburg, Manuel Palacios-Fest, Steven Shelley, Angela Keller, and David Maxwell

2007 Life at the Nexus of the Wetlands and Coastal Prairie, West Los Angeles. *Proceedings of the Society for California Archaeology* 20:34–42.

Ashby, G.E., and J.W. Winterbourne

1966 A Study of Primitive Man in Orange County and Some of Its Coastal Areas*. Pacific Coast Archaeological Society Quarterly* 2(1):5–52.

Bancroft, Hubert

1885 *History of California, Volume 1, 1542-1800.* The History Company Publishers, San Francisco*.*

1886 *History of California, Volume III: 1825-1840.* A.L. Bancroft & Co., San Francisco

Bean, Lowell J., and Charles R. Smith

1978 Gabrielino. In *California,* edited by Robert F. Heizer, pp. 538–549. Handbook of North American Indians, Vol. 8, William C. Sturtevant, general editor, Smithsonian Institution Press, Washington, DC.

Beattie, George

1942 The Battle of Chino. Historical Society of Southern California. 24(4): 143-160.

Blackburn, Thomas

1963 *Ethnohistoric Descriptions of Gabrielino Material Culture.* Annual Report, Archaeological Survey. University of California, Los Angeles.

Byrd, Brian F., and L. Mark Raab

2007 Prehistory of the Southern Bight: Models for a New Millennium. In *California Prehistory*, edited by Terry L. Jones and Kathryn A. Klar, pp. 215–228. Altamira Press, Lanham, Maryland.

Clay, Karen, and Werner Troesken

2005 Ranchos and the Politics of Land Claims. In *Land of Sunshine: An Environmental History of Metropolitan Los Angeles*, ed. William Deverell and Greg Hise. University of Pittsburgh Press. Pittsburgh, PA.

Cleland, Robert Glass

2005 The Cattle on a Thousand Hills: Southern California, 1850-80. The Huntington Library, San Marino, California.

Cleland, James H., Andrew L. York, and Lorraine M. Willey

2007 *Piecing Together the Prehistory of Landing Hill: A Place Remembered.* EDAW Cultural Publications No. 3. EDAW, Inc., San Diego, California.

Critelli, Salvatore, Peter E. Rumelhart, and Raymond V. Ingersoll
1995 Petrofacies and Provenance of the Puente Formation (middle to upper Miocene), Los Angeles Basin, Southern California; Implications for Rapid Uplift and Accumulation Rates. *The Journal of Sedimentary Research.* 65(4a): 656-667.

Dakin, Susanna Bryant
1978 *A Scotch Paisano in Old Los Angeles: Hugo Reid's Life in California, 1832-1852 Derived from His Correspondence*. Originally published 1939. University of California Press, Berkeley, Los Angeles, and London, United Kingdom.

Dumke, Glenn
1944 *The Boom of the Eighties in Southern California.* Huntington Library Publications, San Marino, California.

Engelhardt, Zephyrin
1927a *San Gabriel Mission and the Beginning of Los Angeles*. Mission San Gabriel, San Gabriel, California.

1927b *San Fernando Rey, the Mission of the Valley*. Franciscan Herald Press, Chicago, Illinois.

Goldberg, Susan K.
2001 Land Use, Mobility, and Intensification Evaluation and Refinement of the Model. In *Metropolitan Water District of Southern California, Eastside Reservoir Project, Final Report of Archaeological Investigations, Volume IV: Prehistoric Archaeology Synthesis of Findings*, edited by Susan K. Goldberg, Chapter 14. Report prepared by Applied Earthworks, Hemet, California for Metropolitan Water District of Southern California, Los Angeles.

Gumprecht, Blake
2001 The Los Angeles River: Its Life, Death, and Possible Rebirth. Johns Hopkins University Press, Baltimore.

Harrington, John P.
1942 Culture Element Distributions: XIX Central California Coast. *University of California Anthropological Records* 7(1):1–46.

Heizer, Robert F.
1968 *Village Names in Twelve California Mission Records.* Reports of the University of California Archaeological Survey 74.

Hoffman, Ogden
1862 Reports of Land Cases Determined in the United States District Court for the Northern District of California. Numa Hubert, San Francisco.

Huntington Digital Library
2022 The Huntington Digital Library, Map Collection. https://cdm16003.contentdm.oclc.org/. Accessed February 16, 2022.

Johnston, Bernice E.
1962 *California's Gabrielino Indians.* Frederick Webb Hodge Anniversary Publication Fund 8, Southwest Museum, Los Angeles, California.

King, Chester D.
1994 Native American Placenames in the Santa Monica Mountains National Recreation Area, Agoura Hills. Topanga Anthropological Consultants, California.

Koerper, Henry C., and Christopher E. Drover
1983 Chronology Building for Coastal Orange County: The Case from CA-ORA-119-A. *Pacific Coast Archaeological Society Quarterly* 19(2):1–34.

Koerper, Henry C., Roger D. Mason, and Mark L. Peterson
2002 Complexity, Demography, and Change in Late Holocene Orange County. In *Catalysts to Complexity, Late Holocene Societies of the California Coast*, edited by Jon M. Erlandson and Terry L. Jones, pp. 63–81. Perspectives in California Archaeology Vol. 6. Costen Institute of Archaeology, University of California, Los Angeles.

Kroeber, A.L.
1925 *Handbook of the Indians of California*. Bulletin 78, Bureau of American Ethnology, Smithsonian Institution. Government Printing Office, Washington, DC. Reprinted 1976 by Dover Publications, Inc., New York.

Mason, Roger D., and Mark L. Peterson
1994 *Newport Coast Archaeological Project: Newport Coast Settlement Systems–Analysis and Discussion,* Vol. 1, part 1 of 2. Prepared by the Keith Companies. Report on file at the South Central Coastal Information Center, California State University, Fullerton.

McCawley, William
1996 The First Angelinos: The Gabrielino Indians of Los Angeles. Malki-Ballena Press, Banning, California.

Merriam, Clinton Hart
1955 *Studies of California Indians*. University of California Press. Berkeley, California.

Moratto, M.J.
1984 *California Archaeology*. Academic Press, New York.

Natural Resources Conservation Service (NRCS)
1997 Hueneme Series. United States Department of Agriculture. Available at: https://soilseries.sc.egov.usda.gov/OSD_Docs/H/HUENEME.html#:~:text=The%20Hueneme%20soils%20have%20grayish,mottled%2C%20and%20containing%20segregated%20gypsum.

1999 San Emigdio Series. United States Department of Agriculture. Available at: https://soilseries.sc.egov.usda.gov/OSD_Docs/S/SAN_EMIGDIO.html#:~:text=The%20San%20Emigdio%20series%20consists,is%20about%2062%20degrees%20F.

Natural Resources Conservation Service (NRCS; cont.)
2003 Pico Series. United States Department of Agriculture. Available at: https://soilseries.sc.egov.usda.gov/OSD_Docs/P/PICO.html#:~:text=The%20Pico%20series%20consists%20of,is%20about%2060%20degrees%20F.

NETR Online
2022 Historic Aerials. https://www.historicaerials.com/viewer . Accessed February 2022.

University of California, Santa Barbara
2022 UC Santa Barbara Library. Aerial Photography Collection. https://mil.library.ucsb.edu/ap_indexes/FrameFinder/. Accessed February 16, 2022.

Waugh, John
2003 On the Brink of Civil War: The Compromise of 1850 and How it Changed the Course of American History. The American Crisis Series. Books on the Civil War Era No. 13. Scholarly Resources Inc, Delaware.

Wallace, William J.
1955 A Suggested Chronology for Southern California Coastal Archaeology. *Southwestern Journal of Anthropology* 11(3):214–230.

1978 Post-Pleistocene Archaeology, 9000 to 2000 B.C. In *California*, edited by Robert F. Heizer, pp. 25–36. Handbook of North American Indians Vol. 8, William G. Sturtevant, general editor. Smithsonian Institution, Washington, DC.

Willey, H.I.
1886 Report of the Surveyor-General of the State of California From August 1, 1884, to August 1, 1886. Sacramento.

Yerkes, Robert
1960 Geologic map of the Whittier and La Habra quadrangles, the western Puente Hills, Los Angeles basin, California. U.S. Geological Survey

Yerkes, Robert, and Russel Campbell
2005 Preliminary Geological Map of the Los Angeles 30’ × 60’ Quadrangle, Southern California. U.S. Geological Survey

Yerkes, Robert, T.H. McCulloh, J.E. Schoellhamer, and J.G. Vedder
1965 Geology of the Los Angeles Basin – an introduction. *Geological Survey Professional Paper 420-A.*

Appendix A

Resumes of Key Personnel

EDUCATION

Master of Arts, Underwater Archaeology, East Carolina University, 2018

Bachelor of Arts, Anthropology, University of California, Santa Barbara, 2011

REGISTRATIONS/ CERTIFICATIONS

Registered Professional Archaeologist No. 17387

American Academy of Underwater Sciences, Scientific Diver

Professional Association of Diving Instructors, Certified Diver No. 0110385008

Geographic Information Systems Professional (GISP) Certification,

HAZWOPER 40-Hour Certification

PROFESSIONAL AFFILIATIONS

Society of American Archaeology

Society of Historical Archaeology

Society of California Archaeology (Advisory Council of Underwater Archaeology)

Divers Alert Network

TREVOR GITTELHOUGH, RPA

Cultural Resources Assistant Project Manager

Mx. Gittelhough is an archaeologist and assistant project manager with 11 years of experience. They specialize in underwater cultural resources, with experience in archaeology, cultural resources management, site monitoring, surveys and excavations, laboratory sorting, cataloging and analysis, and conservation. They have conducted environmental, paleontological, and cultural resources work throughout California in support of compliance with the California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), and Sections 106 and 110 of the National Historic Preservation Act (NHPA) for public and private sector clients. Mx. Gittelhough has experience in team management in the terrestrial and underwater archaeological management sectors, with expertise in implementing mitigation and monitoring projects, report production, and coordination with Indigenous groups. Their technical skills include terrestrial and submerged archaeological survey, excavation, and site testing. They have authored numerous site records and technical reports detailing the results of cultural resources work, as well as academic articles. They have also had thorough training in artifact analysis and specializes in lithic analysis and maritime conservation. Mx. Gittelhough meets the Secretary of Interior Professional Qualifications Standards in History and Archaeology.

Enchanted Hills Park Project. Cultural Resource Specialist for a 22.5-acre neighborhood park project in the City of Perris, Riverside County. Provided cultural resource monitoring during initial site work and prepared monitoring letter report. Work performed for the City of Perris.

Dam Maintenance Program. Cultural Resource Specialist for the City of San Diego Dam Maintenance Program in San Diego County. Assisted in preparing an archaeological and historic resources assessment in compliance with state and federal regulations. Scope included a cultural resource records search, review of historic maps and aerials, and preparation of a technical report. Work performed for the City of San Diego Public Utilities Department.

Bouquet Canyon Road Project. Cultural Resource Specialist for a private residential development project in the City of Santa Clarita, Los Angeles County. Monitored all ground-disturbing activities associated with geotechnical studies, such as drilling and trenching. Provided monitoring during ground-penetrating radar studies of portions of the project area. Produced monitoring report. Work performed for Integral Communities.

Lake Morena Oak Shores/Lake Morena Views Mutual Water Company Consolidation. Cultural Resource Specialist for a cultural resources study in support of a proposed water district consolidation project in eastern San Diego County. Assisted with the preparation of a cultural resources technical report in compliance with state and federal regulations and State Water Resources Control Board. Scope included a cultural

resource records search, review of historic maps and aerials, and assistance with the preparation of a technical report. Work performed for Lake Morena Oak Shores Mutual Water Company and Lake Morena Views Mutual Water Company as a subconsultant to NV5.

Shady View Residential Project Environmental Impact Report. Cultural Resource Specialist for a housing development project in the City of Chino Hills in San Bernardino County. The project involves the development of 159 single-family homes, open space and recreational amenities, and associated street, utility/infrastructure, and drainage improvements. Assisted in the preparation of the technical report in compliance with state and federal regulations. Project scope included a cultural resource records search, review of historic maps and aerials, field survey, and preparation of a technical report. Work performed for the City of Chino Hills.

California Crossings. Cultural Resource Specialist for a 29-acre industrial development in Otay Mesa, San Diego County. Conducted a cultural resources study in support of biological mitigation measures (burrowing owl habitat creation). Prepared an archaeological resources assessment in compliance with state and federal regulations. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical report. Work performed for Sudberry Development, Inc. with County of San Diego as the lead agency.

Oceanside Mission Basin Groundwater Purification Facility Well Expansion and Brine Minimization Design. Cultural Resource Specialist for a proposed groundwater wells and brine minimization project to improve water production at an existing groundwater purification facility in the City of Oceanside, San Diego County. Assisted with the preparation of the cultural resources technical report in compliance with state and federal regulations. Project scope included a cultural resources records search, tribal outreach, field survey, monitoring of geotechnical borings, preparation of a constraints memo, and preparation of a technical report. Work performed for the City of Oceanside Water Utilities Department as a subconsultant to GHD, Inc.

611 Island Ave Residential Tower. Cultural Resource Specialist for a residential tower project in the downtown area of the City of San Diego. The project plans include incorporating the existing historic façade into the new 32-story building. Assisted with the preparation of an archaeological and historic resources assessment in compliance with CEQA. Scope included a cultural resource records search, review of historic maps and aerials, and preparation of a technical report with a sensitivity assessment. Work performed for Cresleigh Homes.

EMWD Quail Valley III Regional Water Tank Environmental Consulting. Cultural Resource Specialist for a new water tank and associated piping and facilities in Riverside County. Prepared the technical report to summarize a records search, Native American outreach, archaeological survey, and research into the historic land uses of the project lands. Work performed for Pulte Group, with Eastern Municipal Water District as the CEQA lead agency.

Cactus II Feeder Pipeline Biological and Cultural Construction Monitoring. Cultural Resource Specialist for construction monitoring of the installation of a sewer line and associated facilities. Work performed for Eastern Municipal Water District.

Pasadena Water & Power Sunset Reservoir Replacement Historical Resources Evaluation. Cultural Resource Specialist for a reservoir replacement project in the City of Pasadena. Prepared a cultural resources technical analysis to support an EIR and provided support to the City of Pasadena for tribal consultation. Work performed as a subconsultant to Kennedy Jenks, with the City of Pasadena as the lead agency under CEQA.

Athletic Facility Borings Cultural Resources Monitoring. Cultural Resource Specialist for a cultural resource monitoring program in support of the proposed project on the Palomar College San Marcos Campus, San Diego County. Provided monitoring of ground disturbing activities in compliance with CEQA, resulting in the completion of a cultural resources monitoring letter report.

Arrow 32N Residential. Senior Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the City of Upland, San Bernardino County. Co-authored an archaeological technical report and assisted with a historic resources assessment report in compliance with Section 106 and CEQA. Scope included a cultural resources records search, review of historic maps and aerials, preparation of a technical report and evaluation of historic resources for inclusion to the NRHP and CRHR.

Garland Battery Energy Storage System. Senior Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the County of Los Angeles. Prepared an archaeological resources assessment and provided monitoring for all ground disturbing activities a in compliance with CEQA. Scope included a cultural resources records search, review of historic maps and aerials, pedestrian survey, preparation of a technical report, monitoring, and the preparation of a monitoring report.

Appendix D

Historic Resources Evaluation Report

HELIX Environmental Planning

Prologis Stewart and Gray Road Warehouse Project

Historic Resources Evaluation Report

February 2023 | 04967.00001.001

Prepared for and submitted to:

City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Project Applicant:

Prologis, Inc.
2141 Rosecrans Avenue
Suite 1151
El Segundo, CA 90245

Prepared by:

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

This page intentionally left blank

National Archaeological Database Information

Authors:	Marina Khrustaleva, M.A.; Trevor Gittelhough, M.A. RPA; James Turner, M.A. RPA
Firm:	HELIX Environmental Planning, Inc.
Client/Project:	City of Downey / Prologis Stewart and Gray Road Warehouse Project
Report Date:	February 2023
Report Title:	Historic Resources Evaluation Report for Prologis Stewart and Gray Road Warehouse Project, Downey, Los Angeles County, California
Submitted to:	City of Downey, Community Development Department, 11111 Brookshire Avenue, Downey, CA 90241
Type of Study:	Historic Resources Evaluation Report
New Sites:	Rheem Manufacturing Corporation/Aerojet General Corporation Buildings One-Four
Updated Sites:	None
USGS Quad:	Whittier 7.5' Quadrangle
Acreage:	Approximately 31.35 acres
Key Words:	Prologis Stewart and Gray Road Warehouse Project; Los Angeles County; Downey; Township 3 South, Range 12 West; Hall Road; Stewart and Gray Road; Woodruff Avenue; Santa Gertrudes (McFarland and Downey) Land Grant; Rheem Manufacturing Corporation; Aerojet General Corporation; historic evaluation; no significant resources

This page intentionally left blank

Table of Contents

Section			Page
EXECUTIVE SUMMARY			ES-1
1.0	INTRODUCTION		1
	1.1	Project Location	1
	1.2	Project Description	2
2.0	REGULATORY FRAMEWORK		2
	2.1	Federal	2
		2.1.1 National Register of Historic Places	2
		2.1.2 Secretary of the Interior's Standards for Rehabilitation	3
	2.2	State	5
		2.2.1 California Register of Historical Resources	5
		2.2.2 California Environmental Quality Act	5
	2.3	Local	6
		2.3.1 City of Downey General Plan	6
		2.3.2 City of Downey Municipal Code	8
3.0	METHODS		8
	3.1	Records Search	8
	3.2	Built Environment Resource Directory	8
	3.3	Field Survey	8
	3.4	Archival Research	9
	3.5	Project Personnel	9
4.0	HISTORIC SETTING AND CONTEXT		9
	4.1	Mexican Ranchos and Early American Period	10
	4.2	Early Urban Development of Downey	11
	4.3	Aerospace Industry in Downey	12
5.0	HISTORY OF THE PROJECT SITE		13
	5.1	Rheem Manufacturing Company	15
	5.2	Alben Randolf Froberg	20
	5.3	Aerojet General Corporation	22
6.0	ARCHITECTURAL DESCRIPTION		26
	6.1	Overview of Subject properties	26
	6.2	Building One	26
	6.3	Building Two	28
	6.4	Building Three	30
	6.5	Building Four	31

Table of Contents (cont.)

Section			Page
7.0	EVALUATION		32
	7.1	Significance Criteria A/1	32
	7.2	Significance Criteria B/2	32
	7.3	Significance Criteria C/3	33
	7.4	Significance Criteria D/4	33
8.0	CONCLUSION		34
9.0	REFERENCES		35

LIST OF APPENDICES

A	Department of Parks and Recreation Series 523 Forms
B	Resumes of Key Personnel
C	Building Permits

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	USGS Topography	2
3	Aerial Photograph	2

Acronyms and Abbreviations

AIA	American Institute of Architects
APN	Assessor's Parcel Number
BERD	Built Environment Resource Directory
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHRIS	California Historical Resources Information System
City	City of Downey
CRHR	California Register of Historical Resources
DPR	Department of Parks and Recreation
HELIX	HELIX Environmental Planning, Inc.
HRER	Historic Resources Evaluation Report
JATO	Jet-Assisted Takeoff
NETR	Nationwide Environmental Title Research
NHPA	National Historic Preservation Act
NPS	National Park Service
NRHP	National Register of Historic Places
OAC	Online Archives of California
OHP	Office of Historic Preservation
PCAD	Pacific Coast Architecture Database
PRC	Public Resources Code
project	Prologis Stewart and Gray Road Warehouse Project
SCCIC	South Central Coastal Information Center
UCSB	University of California Santa Barbara
USGS	U.S. Geological Survey

This page intentionally left blank

EXECUTIVE SUMMARY

PURPOSE AND SCOPE

The City of Downey (City; lead agency) retained HELIX Environmental Planning, Inc. (HELIX) to provide historic resources consulting services in support of the Prologis Stewart and Gray Road Warehouse Project (project) in the City of Downey, Los Angeles County, California. Located in the City, at the northwest corner of the intersection of Stewart and Gray Road and Woodruff Avenue (Assessor's Parcel Numbers [APNs] 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-016, and 6284-019-017), the extant buildings located at 9300, 9350, and 9400 Hall Road and 9301, 9333 (or 9363), and 9399 (9401) Stewart and Gray Road are used as manufacturing and warehouse facilities by multiple tenants (furniture assembly, paper recycling, etc.)

The proposed project would include the demolition of the existing four buildings (totaling approximately 433,000 square feet) and the construction of an approximately 535,110-square-foot industrial concrete tilt-up building for warehouse/logistics uses. All four buildings are older than 50 years old and require evaluation for historical significance and eligibility for listing in the National Register of Historic Places (NRHP) and the California Register of Historical Resources (CRHR), as required under the California Environmental Quality Act (CEQA) (14 California Code of Regulations [CCR] Section 15064.5).

The purpose of this report is to provide the substantial evidence necessary to determine whether any of the of-age components of the extant buildings, in whole or in part, meet federal, state, or local eligibility criteria as a historic landmark, and therefore qualify as a historical resource pursuant to CEQA. This intensive-level historic resource evaluation report (HRER) assesses the subject properties in accordance with the criteria of the NRHP and the CRHR. This evaluation includes an analysis of the historic integrity of the buildings, the establishment of a period of significance, and the recordation of the resource on the appropriate California Department of Parks and Recreation (DPR) Series 523 forms. This report does not include a project-specific impacts analysis, mitigation measures, or alternatives analysis.

All activities were conducted in accordance with the requirements of the Public Resources Code (PRC) and CEQA, as well as applicable best practices and regulations. The City of Downey is the lead agency under CEQA.

DATES OF INVESTIGATION

HELIX staff requested a record search of the California Historical Resources Information System (CHRIS) from the South Central Coastal Information Center (SCCIC) on February 17, 2022. On June 10, 2022, HELIX Senior Architectural Historian Marina Khrustaleva, M.A., and HELIX Archaeologist James Turner, M.A., conducted an intensive-level pedestrian survey and inspection of the subject buildings. Ms. Khrustaleva meets and exceeds the Secretary of the Interior's Professional Qualification Standards for architectural history, as codified in 36 Code of Federal Regulations (CFR) Part 61. Field notes included resource descriptions, current conditions, alterations/integrity, and character-defining features. On August 3 and August 24, 2022, Ms. Khrustaleva conducted archival research at the City of Downey Planning Department, the Downey Historical Society, and the Downey City Library. She evaluated the historical significance of the buildings based on in-depth historical background research and by applying the NRHP/CRHR eligibility criteria. All evaluation results were documented in this report; the compiled DPR set follows this report in Appendix A, and key staff resumes follow as Appendix B.

SUMMARY OF FINDINGS

Historical background research demonstrates that industrial buildings at 9300, 9350, and 9400 Hall Road and 9301, 9333 (9363), and 9399 (9401) Stewart and Gray Road are not associated with any significant historic events or person(s). The buildings were not designed by master architects, nor are they exemplary embodiments of an architectural style. All four buildings were found not historically significant and, therefore, not eligible for the NRHP/CRHR. Therefore, the buildings at 9300, 9350, and 9400 Hall Road and 9301, 9333 (9363), and 9399 (9401) Stewart and Gray Road are not considered historical resources for the purposes of CEQA.

A copy of this report and DPR 523 forms documenting the subject buildings will be placed on file at the SCCIC for inclusion in the CHRIS. The DPR forms are attached as Appendix A.

Based on the results of the current study, no historic properties will be affected by the Prologis Stewart and Gray Road Warehouse Project.

1.0 INTRODUCTION

The City of Downey (City; lead agency) retained HELIX Environmental Planning, Inc. (HELIX) to provide historic resources consulting services in support of the Prologis Stewart and Gray Road Warehouse Project (project) in the City of Downey, Los Angeles County, California. Located in the City, at the northwest corner of the intersection of Stewart and Gray Road and Woodruff Avenue (Assessor's Parcel Numbers [APNs] 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-016, and 6284-019-017), the extant buildings were operated as industrial and warehouse facilities from 1951 to the present. The proposed project would include the demolition of the existing four buildings (totaling approximately 433,000 square feet) and the construction of an industrial concrete tilt-up building for warehouse/logistics uses and an ancillary truck workshop facility.

The purpose of this report is to provide the substantial evidence necessary to determine whether any of the of-age components of the extant buildings, in whole or in part, meet federal, state, or local eligibility criteria as a historic landmark and therefore qualify as a historical resource pursuant to the California Environmental Quality Act (CEQA). This intensive-level historic resource evaluation report (HRER) assesses the subject properties in accordance with the criteria of the National Register of Historic Places (NRHP) and the California Register of Historical Resources (CRHR). This evaluation includes an analysis of the historic integrity of the buildings, the establishment of a period of significance, and the recordation of the resource on the appropriate California Department of Parks and Recreation (DPR) Series 523 forms (Appendix A). This report does not include a project-specific impacts analysis, mitigation measures, or alternatives analysis.

All activities were conducted in accordance with the requirements of the Public Resources Code (PRC) and California Environmental Quality Act, as well as applicable best practices and regulations. The City of Downey is the lead agency under CEQA.

1.1 PROJECT LOCATION

The project site is located in the City of Downey, in Los Angeles County (Figure 1, *Regional Location*), at the northwest corner of the intersection of Stewart and Gray Road and Woodruff Avenue (Figure 2, *USGS Topography*, and Figure 3, *Aerial Photograph*). The site is bordered by Hall Road to the north, commercial buildings to the east, Stewart and Gray Road to the south, and industrial buildings to the west. The 29.165-acre project site consists of five parcels (APNs 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-016, and 6284-019-017) and includes four buildings:

- Building A (9400 (9350) Hall Road and 9399 (9401) Stewart and Gray Road);
- Building B (9300 Hall Road and 9301 Stewart and Gray Road);
- Building C (9350 (9400) Hall Road);
- Building D (9333 (9363) Stewart and Gray Road).

The numbering of the buildings and their parts is inconsistent between the Los Angeles County Assessor's Portal and the postal addresses used by current tenants.

1.2 PROJECT DESCRIPTION

The proposed project would include the demolition of the existing four buildings (totaling approximately 433,000 square feet) and the construction of an approximately 535,110-square-foot industrial concrete tilt-up building for warehouse/logistics uses.

The new industrial building is intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The facility will also include an office and mezzanine area. On-site activities will include the following: general industrial/warehouse with refrigeration and cold storage components for the purposes of receiving, storing, shipping of food and/or beverage products, storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery. The office space is intended to be used for office uses ancillary to the warehouse operations.

2.0 REGULATORY FRAMEWORK

This section describes the applicable regulatory framework considered in this study.

2.1 FEDERAL

2.1.1 National Register of Historic Places

The National Register of Historic Places was established by the National Historic Preservation Act (NHPA) of 1966 as "an authoritative guide to be used by Federal, State, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment" (CFR 36 CFR 60.2). The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. A property is eligible for the NRHP if it:

Criterion A Is associated with events that have made a significant contribution to the broad patterns of our history; or

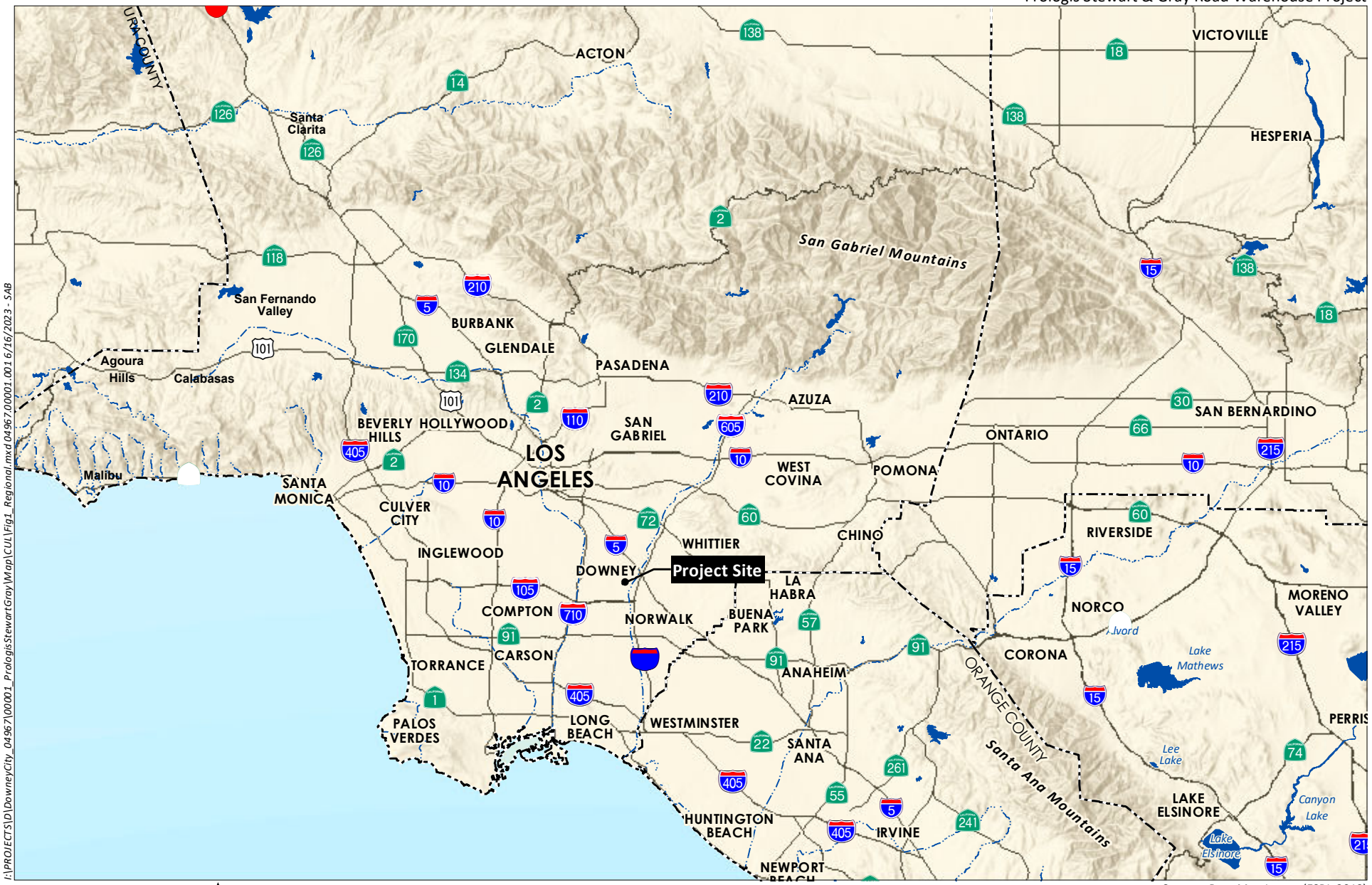
Criterion B Is associated with the lives of persons significant in our past; or

Criterion C Embodies the distinctive characteristics of a type, period, or method of installation, or represents the work of a master, possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; or

Criterion D Has yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting these criteria, a property must retain historic integrity, which is defined in National Register Bulletin 15 as the "ability of a property to convey its significance" (National Park Service 1990). In order to assess integrity, the National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity.

To retain integrity, a property must possess several, if not all, of these seven qualities, which are defined in the following manner in National Register Bulletin 15:



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\CUL\Fig1_Regional.mxd 04967.00001.001 6/16/2023 - SAB

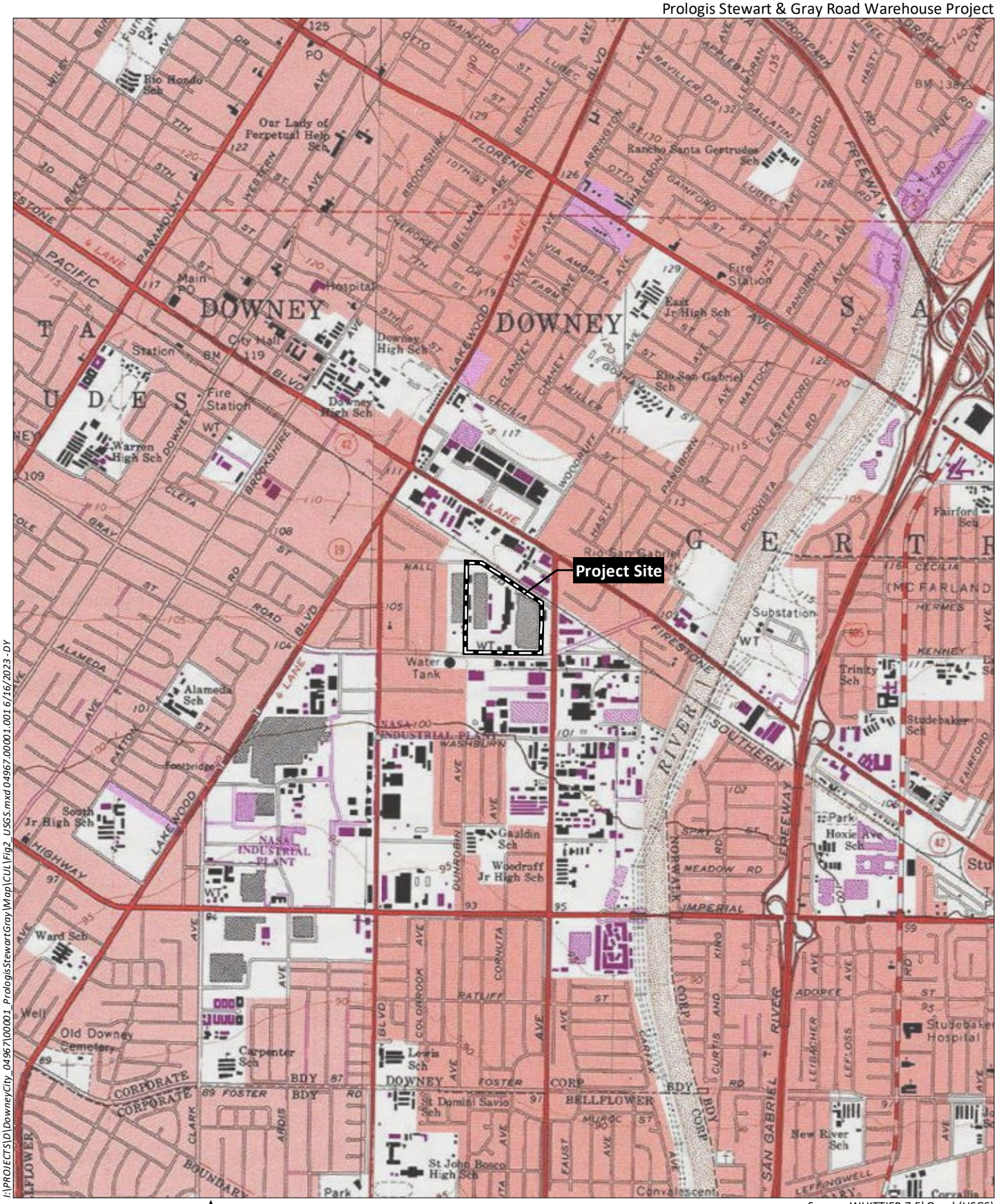
0 10 Miles

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\CUL\Fig2_USGS.mxd 04967.00001.001 6/16/2023 - DY

0 2,000 Feet

Source: WHITTIER 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2

I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\CUL\Fig3_Aerial.mxd 04967.00001.001 6/16/2023 -DY

0 300 Feet

Source: Aerial (Maxar, 2020)

HELIX Environmental Planning

Aerial Photograph

Figure 3

1. **Location.** The place where the historic property was constructed or the place where the historic event occurred.

2. **Design.** The combination of elements that create the form, plan, space, structure, and style of a property.

3. **Setting.** The physical environment of a historic property.

4. **Materials** are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.

5. **Workmanship.** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.

6. **Feeling.** A property's expression of the aesthetic or the historic sense of a particular period of time.

7. **Association.** The direct link between an important historic event or person and a historic property.

Some aspects of integrity may be accorded more weight than others, depending on the type of resource being evaluated and the applicable eligibility criteria. Integrity can be assessed only after it has been concluded that a resource is significant.

2.1.2 Secretary of the Interior's Standards for Rehabilitation

In accordance with the National Park Service and CEQA Guidelines, projects that comply with the *Secretary's Standards for the Treatment of Historic Properties* and the *Secretary's Standards for Rehabilitation* (*Secretary's Standards*) are projects that retain the historic integrity of the resource. According to CEQA Guidelines, a project that complies with the *Secretary's Standards* is generally considered to be a project that will not cause a significant adverse impact to a historical resource.

The goal of the *Secretary's Standards* is to outline treatment approaches that allow for the retention of and/or sensitive changes to the distinctive materials and features that lend a historical resource its significance. The *Secretary's Standards* and Guidelines offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations. These standards also provide guidance on new construction adjacent to historic districts and properties, in order to ensure that there are no indirect adverse impacts to historic properties.

Rehabilitation is the most flexible treatment approach of the *Secretary's Standards*. The ten *Secretary's Standards for Rehabilitation* are:

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.

2. The historic character of a property shall be retained and preserved. The removal of historic materials or the alteration of features and spaces that characterize a property shall be avoided.

3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.

4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.

5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.

6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires the replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.

8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

10. New additions and adjacent or related new construction shall be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

The *Secretary's Standards and Guidelines* offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations. The *Secretary's Standards for Rehabilitation* also provide guidance on new construction adjacent to historic districts and properties in order to ensure that there are no adverse indirect impacts to integrity as a result of a change in setting. Applying the *Secretary's Standards* to new construction adjacent to historic resources helps ensure the avoidance of indirect impacts and the retention of the setting and feeling of the historic resource and its surrounding environment.

Secretary's Standards compliance begins with the identification and documentation of the "character-defining," or historically significant, features of the historical resource. According to Preservation Brief 17, *Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving Their Character*, there is a three-step process to identifying character-defining features (Nelson, 1982). Step 1 involves assessing the physical aspects of the building exterior as a whole, including its setting, shape and massing, orientation, roof and roof features, projections, and openings. Step 2 looks at the building more closely—at materials, trim, secondary features, and craftsmanship. Step 3 encompasses the interior, including individual spaces, relations or sequences of spaces (floor plan), surface finishes and materials, exposed structure, and interior features and details. Alterations

and replacement of character-defining features over time can impair a historic property's integrity and result in a loss of historic status. Therefore, to ensure that a historic property remains eligible after the implementation of projects, character-defining features should be identified and preserved.

2.2 STATE

The policies of the NHPA are implemented at the state level by the California Office of Historic Preservation, a division of the California Department of Parks and Recreation. The Office of Historic Preservation is also tasked with carrying out the duties described in the PRC and maintaining the California Historic Resources Inventory and CRHR. The state-level regulatory framework also includes CEQA, which requires the identification and mitigation of substantial adverse impacts that may affect the significance of eligible historical and archaeological resources.

2.2.1 California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Sections 21083.2 and 21084.1). Certain properties, including those listed in or formally determined eligible for listing on the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included on the CRHR.

According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

Criterion 1: It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

Criterion 2: It is associated with the lives of persons important in our past;

Criterion 3: It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values;

Criterion 4: Has yielded, or may be likely to yield, information important in prehistory or history.

Properties that do not retain sufficient integrity for NRHP listing can still qualify for listing in the CRHR. Historical resources eligible for listing in the California Register must meet one of the criteria of significance described above and retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance.

2.2.2 California Environmental Quality Act

CEQA requires a lead agency to analyze whether historic and/or archaeological resources may be adversely impacted by a proposed project. Under CEQA, a "project that may cause a substantial adverse change in the significance of a historic resource is a project that may have a significant effect on the environment" (PRC Section 21084.1). Answering this question is a two-part process: first, the determination must be made as to whether the proposed project involves cultural resources. Second, if

cultural resources are present, the proposed project must be analyzed for a potential "substantial adverse change in the significance" of the resource.

According to CEQA Guidelines Section 15064.5, historic resources are:

1. A resource listed in, or formally determined eligible for listing in, the California Register of Historical Resources (PRC 5024.1, Title 14 CCR, Section 4850 et seq);

2. A resource included in a local register of historical resources, as defined in PRC Section 5020.1(k), or identified as significant in a historic resources survey meeting the requirements of PRC Section 5024.1(g);

3. Any building, structure, object, site, or district that the lead agency determines eligible for national, state, or local landmark listing; generally, a resource shall be considered by the lead agency to be historically significant (and therefore a historic resource under CEQA) if the resource meets the criteria for listing on the California Register (as defined in PRC Section 5024.1, Title 14 CCR, Section 4852).

Resources nominated to the CRHR must retain enough of their historic character or appearance to convey the reasons for their significance. Resources whose historic integrity (as defined in the previous section) does not meet NRHP criteria may still be eligible for listing in the CRHR.

According to CEQA, the fact that a resource is not listed in or determined eligible for listing in the California Register or is not included in a local register or survey shall not preclude the lead agency from determining that the resource may be a historical resource (PRC Section 5024.1). Pursuant to CEQA, a project with an effect that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (CEQA Guidelines, Section 15064.5(b).

CEQA Guidelines specify that "substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired" (CEQA Guidelines, Section 15064.5). Material impairment occurs when a project alters in an adverse manner or demolishes "those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion" or eligibility for inclusion in the NRHR, CRHR, or local register. In addition, pursuant to CEQA Guidelines Section 15126.2, the "direct and indirect significant effects of the project on the environment shall be clearly identified and described, giving due consideration to both the short-term and long-term effects."

2.3 LOCAL

2.3.1 City of Downey General Plan

The City of Downey adopted the General Plan (Vision 2025) on January 25, 2005. It states that "cultural amenities, including those of a historical, architectural, and archaeological nature, greatly enrich a community's quality of life by displaying a strong positive and distinct image, linking the past to the present, and boosting civic pride" (City of Downey, 2005: 8-12). The Goals and Policies include three policies related to City's cultural resources:

- Goal 8.4. Enhance Downey's cultural resources.
  - Policy 8.4.1. Identify the city's cultural resources.
    - Program 8.4.1.1. Conduct a survey to identify historic and architecturally significant structures, locations, and archeological resources.
    - Program 8.4.1.2. Seek listing for appropriate properties on the National Register of Historic Places and the California State Register of Historic Resources.
    - Program 8.4.1.3. List significant historic resources in a Downey Register of Historic Places.
    - Program 8.4.1.4. Establish a Council-appointed commission to address cultural resources issues, such as public art, historical preservation, and architectural resources.
    - Program 8.4.1.5. Promote public information through the local schools, churches, and other organizations, which explains the benefits of historic preservation and enhancement of cultural resources.
    - Program 8.4.1.6. Recognize Downey's historic significance as a premier locale for post-World War II and 1950s-style architecture.
    - Program 8.4.1.7. Support and recognize individuals and groups, such as the Downey History Center, which work to preserve Downey's historic resources.
  - Policy 8.4.2. Preserve the city's cultural resources.
    - Program 8.4.2.1. Adopt a historic preservation ordinance that would require a permit to demolish or modify a historic resource.
    - Program 8.4.2.2. Provide incentives for property owners for historic preservation and resource protection and continue to add more incentives as opportunities arise.
    - Program 8.4.2.3. Promote the preservation and restoration of older structures.
    - Program 8.4.2.4. Encourage adaptive reuse of older structures.
    - Program 8.4.2.5. Reuse existing historic architectural elements in new construction when the preservation of historic resources is not feasible.
    - Program 8.4.2.6. Discourage the relocation of historic resources, or if necessary, relocate the historic resource within Downey.
    - Program 8.4.2.7. Preserve and/or relocate significant archeological resources.
  - Policy 8.4.3. Enhance the city's existing cultural resources.
    - Program 8.4.3.1. Develop an ordinance to fund and/or require public art as part of new development.
    - Program 8.4.3.2. Support and encourage community events, such as the Downey Street Faire, Holiday Lane Parade, and ARC Walk.
    - Program 8.4.3.3. Support and encourage groups, such as the Downey Museum of Art, Downey Civic Light Opera, Downey Symphonic Society, Downey Historical Society, and Downey Rose Float Association.

- Program 8.4.3.4. Encourage cultural uses to be more centrally located - preferably in the downtown area.
- Program 8.4.3.5. Develop a museum/learning center as part of the Downey Landing development.

The General Plan recognized six landmarks as significant historical resources: the Rives Home (1911), Casa de Parley Johnson (1926), McDonald's Restaurant (1953), the Dismuke's House (1887), Rancho Los Amigos Medical Center (Harriman Building, 1932), and the Historical Arch located along the bend of Civic Center Drive.

2.3.2 City of Downey Municipal Code

The City of Downey Municipal Code does not include a Historic Preservation Ordinance. The City of Downey currently does not have a Historic Resources Inventory, a Historic Context Statement, or a Citywide Historic Resources Survey.

3.0 METHODS

3.1 RECORDS SEARCH

HELIX requested a record search of the California Historical Resources Information System (CHRIS) from the South Central Coastal Information Center (SCCIC) on February 17, 2022. The records search covered a one-mile radius around the proposed project area and included the identification of previously recorded cultural resources (archaeological and historical resources), the locations and citations for previous cultural resources studies, and a review of the State Office of Historic Preservation (OHP) Historic Resources Inventory. No previously documented historic resources within the project area were on file with the SCCIC. The properties present within the project area are not included in the California Built Environment Resources Directory (BERD) / State Historic Resources Inventory, nor are they included on a register or inventory of designated or eligible landmarks in the City of Downey. For a detailed summary of the records search results for the project, please refer to the separate cultural resources report produced by HELIX for this project (Gittelhough and Robbins-Wade 2023:11-14).

3.2 BUILT ENVIRONMENT RESOURCE DIRECTORY

HELIX also reviewed the BERD, which contains information on historic-era built environment resources that have been documented in the OHP inventory of non-archaeological resources. The OHP inventory only contains information on resources that have been processed by the office itself, such as those reviewed for eligibility to the NRHP, CRHR, and the California Historic Landmarks programs. This review identified over 100 historic structures within one mile of the project area, none of which were located within the project area, and the vast majority of which are located more than 0.5 mile from the project area.

3.3 FIELD SURVEY

HELIX Senior Architectural Historian Marina Khrustaleva, M.A., and HELIX Archaeologist James Turner, M.A., conducted an intensive-level pedestrian survey and inspection of the project site on June 10, 2022. Ms. Khrustaleva meets and exceeds the Secretary of the Interior's Professional Qualification

Standards for architectural history, as codified in 36 CFR Part 61. Field investigation consisted of an examination and the photography of the exterior and interior of four historic buildings within the project site. Field notes included resource descriptions, current conditions, alterations, character-defining features, and integrity analysis.

3.4 ARCHIVAL RESEARCH

Research conducted by HELIX for this study included a variety of primary and secondary sources. HELIX consulted a number of online sources for this study, including the Los Angeles Public Library, the Huntington Digital Library, USC Digital Library, Los Angeles County Assessor's Portal, U.S. Geological Survey (USGS) Historical Topographic Map Explorer, Nationwide Environmental Title Research (NETR), University of California Santa Barbara (UCSB) Aerial Photo Collection, David Rumsey Map Collection, Online Archive of California, California State Library, Calisphere.com, American Institute of Architects (AIA) Historical Directory of American Architects, Pacific Coast Architecture Database (PCAD), Ancestry.com, Newspapers.com, California Digital Newspaper Collection, Google Books, and city directories.

Historic topographic maps and aerial imagery included historic aerials from 1932, 1952, 1953, 1963, and 1972 (UCSB 2022; NETR Online 2022) and several historic USGS topographic maps, including the 1896 and 1902 Downey (1:62,500), the 1923 and 1936 Bell (1:24,000), 1943 Downey (1:62,500), and the 1951 Whittier (1:24,000) (USGS 2022), as well as the 1965 and 1972 Whittier (1:24,000) topographic maps. Other maps reviewed include the Los Angeles Land Use Maps (Huntington 2022). The purpose of this research was to identify historic structures and land use in the area.

On August 3 and August 24, 2002, Ms. Khrustaleva conducted in-person archival research at the City of Downey Planning Department, the Downey Historical Society, and the Downey City Library, reviewing archived building records, aerial photography, Downey Chamber of Commerce publications, and other documents. Robert Thompson of the Downey Historical Society provided valuable photographs, printed materials, and oral history information.

3.5 PROJECT PERSONNEL

HELIX Senior Architectural Marina Khrustaleva, M.A., served as the principal investigator and author of this study. HELIX Cultural Resources Group Manager Mary Robbins-Wade, M.A., RPA, provided QA/QC review and strategic oversight. Ms. Khrustaleva meets and exceeds the Secretary of Interior's Professional Standards for architectural history and history. Resumes for key HELIX project personnel are presented in Appendix B.

4.0 HISTORIC SETTING AND CONTEXT

National Register Bulletin 24, *Guidelines for Local Surveys*, states that the historic context developed in support of historic resource surveys should analyze and describe the "broad pattern of historical development in a community or its region that may be represented by historic resources" (U.S. Department of the Interior 1985: 14). Developing a historic context for survey areas is described in the National Park Service (NPS) guidelines as vital for providing the basis for a survey effort, helping researchers successfully identify all significant resources, and helping eliminate unintended biases. Through a review of the history and prehistory of the state and region under consideration, the historic

context should define important patterns of development that may be reflected in the area's historic resources.

The National Register further defines context as "a body of information about our history according to the stages of development occurring at various times and places" (U.S. Department of the Interior 1997: 7). Theme, place, and time are the basic elements that define a historic context.

Historic context is linked to the built environment through the concept of property type. A property type is "a grouping of individual properties based on a set of shared physical or associative characteristics. Physical characteristics may relate to structural forms, architectural styles, building materials, or site type. Associative characteristics may relate to the nature of associated events or activities, to associations with a specific individual or group of individuals" (U.S. Department of the Interior 1985: 14). Historic contexts, therefore, become useful tools for gauging the relative importance and integrity of properties.

In order to provide a contextual framework for the assessment of the subject properties, this section provides the historic setting and context for the property, divided chronologically and according to themes of significance. Given the history of the subject properties, the context and theme that apply most closely include the following evaluative framework:

Context: Early Settlement and Development in Downey
Theme: Aerospace Industry in Downey
Property Type: Industrial

The following sections briefly summarize Downey's early history, followed by descriptions of the context/theme used in the evaluation of the subject properties. This focused historic context section draws on original research, as well as information on the history of the City of Downey, available on the City's online resources. Additional sources utilized in this section and report are included in Section 9, *References*.

4.1 MEXICAN RANCHOS AND EARLY AMERICAN PERIOD

In 1784, the first and largest land grant was deeded by Spanish Governor Pedro Fages to Manuel Nieto, a former sergeant in the Spanish Army; at the time, the Rancho Los Nietos was the largest land grant in Alta California, originally totaling 300,000 acres. During a dispute with Mission San Gabriel in 1790, the grant was reduced to 167,00 acres, stretching from just north of Whittier to the sea and from the Los Angeles River to the Santa Ana River (Buena Park Historical Society 2006; Downey Historical Society n.d.; Rancho Los Cerritos Historic Site n.d.). As with other ranchos, large tracts of Rancho Los Nietos were dedicated almost exclusively to cattle grazing; at the time, cattle hides had become a primary export from southern California. Following Nieto's death in 1804, the Rancho was passed to his wife and four children.

Although Mexico gained its independence from Spain in 1821, Spanish patterns of culture and influence remained for a time. The missions continued to operate as they had in the past, and laws governing the distribution of land were also retained in the 1820s. Following the secularization of the missions in 1834, large ranchos were granted to prominent and well-connected individuals, ushering in the Rancho Era, with the society making a transition from one dominated by the church and the military to a more

civilian population, with people living on ranchos or in pueblos. With the numerous new ranchos in private hands, cattle ranching expanded and prevailed over agricultural activities

In 1833, Governor Jose Figueroa split Rancho Nietos into six parts, one for each heir: Rancho Los Alamitos, Los Cerritos, Los Coyotes, Los Bolsas, Palo Alto, and Santa Gertrudes. The City of Downey lies in the area granted as Rancho Santa Gertrudes, which was granted to Josefa Cota, the widow of Manuel Nieto's son, Antonio Nieto (City of Downey n.d.; Downey Historical Society n.d.). In 1843, the grant was purchased from Cota by Lemuel Carpenter, the husband of her niece Maria de Los Angeles Dominguez. Carpenter, born in Kentucky, established a soap business at *Chokishgna*, a Tongva-Gabrieleño village on the San Gabriel River (Dyson 1927).

American governance began in 1848, when Mexico signed the Treaty of Guadalupe Hidalgo, ceding California to the United States at the conclusion of the Mexican–American War. A great influx of settlers to California and the Los Angeles region occurred during the American Period, resulting from several factors, including the discovery of gold in the state in 1848, the end of the Civil War, and the availability of free land through the passage of the Homestead Act. The increase in American and European populations quickly overwhelmed many of the Spanish and Mexican cultural traditions and greatly increased the rate of population decline among Native American communities.

While the American system required that the newly acquired land be surveyed prior to settlement, the Treaty of Guadalupe Hidalgo bound the United States to honor the land claims of Mexican citizens who were granted ownership of ranchos by the Mexican government. The Land Act of 1851 established a board of commissioners to review land grant claims, and land patents for the land grants were issued throughout the following years. Lemuel Carpenter filed a claim for part of Rancho Santa Gertrudes in 1852 (Willey 1886). At some point in 1852, Carpenter took out a $5,000 loan from John Gately Downey, an Irish immigrant who came to California during the Gold Rush and succeeded to become the state's first governor. This loan would later balloon to more than $100,000 by 1859. Unable to pay this debt, Carpenter killed himself (Santa Fe Springs Library n.d.). The grant was then sold at a sheriff's auction to Downey and James P. McFarland and patented to the men in 1870 (Willey 1884).

Initially sworn in as the lieutenant governor, Downey assumed the governorship of California in 1860 after Governor Milton Latham resigned after being elected to fill the Senate vacancy left by David C. Broderick, who was killed in a duel the year prior (Brady 1905). Following the end of his term as governor, Downey returned to southern California and began subdividing Rancho Santa Gertrudes into small farms along the banks of the San Gabriel River (City of Downey n.d.). The following decades would see these farms prospering from the area's excellent soil. Like other portions of southern California during this time, citrus would become a large part of the area's exports, in part due to the importing of several varieties by Downey himself.

4.2 EARLY URBAN DEVELOPMENT OF DOWNEY

Two settlements were established in the mid-1800s within the area that would become the City of Downey: The College Settlement and Gallatin. While no records indicate where the College Settlement was located, based on the original roadways seen in early topographic maps, it likely was in the southwestern area of modern-day Downey. Gallatin was located where modern-day Paramount Boulevard and Florence Avenue cross, approximately 1.5 miles to the northwest of the project area (Pierce 2010). In 1873, these settlements would be joined by a third, when Downey subdivided 96 acres of the Rancho Santa Gertrudes to establish a community, which would later be known as "Downey City"

(Downey Chamber of Commerce n.d.). It was located 10 miles from the ocean and 10 miles from Los Angeles.

The opening of the Southern Pacific Railroad in the 1870s and the completion of the Southern Pacific Transcontinental rail line in the early 1880s resulted in an increased flow of settlers from the east coast arriving in the west coast. As such, the population of Los Angeles County boomed, requiring an increase in development. By 1883, the Southern Pacific Railroad had built a route that passed through Downey City; as a result, families and businesses from Gallatin and the College Settlement began moving closer to the railroad (Pierce 2010). This eventually united the three settlements into the larger settlement of Downey, with the new Southern Pacific Railroad Depot built in 1888 serving as the center of town.

Agriculture continued to be the primary focus of Downey over the following decades; approximately 90 percent of present-day Downey was used for agriculture–citrus, grain, corn, and castor beans were the community's chief exports (Bruce 2017). In 1903, the Downey Board of Trade (later renamed the Downey Chamber of Commerce) was organized. In 1906, an effort to incorporate Downey into a City failed; the boundaries used in the process were "remarkably unsophisticated" (Downey Historical Society n.d.). However, the growing Downtown Downey contained a number of businesses: a Sunkist packing plant, a department store, banks, restaurants, and mercantile shops. It was also the site of Downey Union High School and Downey Grammar School.

4.3 AEROSPACE INDUSTRY IN DOWNEY

The seeds of the aerospace industry in Downey were planted by E.M. Smith, a wealthy industrialist and inventor, whose family had reaped a fortune from a drill bit patent for oil exploration. In 1929, he purchased approximately 73 acres of land one mile south of the depot from James Hughan, a castor bean and orange farmer. Smith developed the area into two runways and an assembly plant, which would later house the Emsco Aircraft Corporation (City of Downey 2022).

In 1940, Downey's population was still only 12,000. Orange groves remained visible in the downtown area, with dairies located along the banks of the two rivers. During World War II, the aerospace industry became a significant economic factor in Downey. Several years earlier, in 1936, Gerard "Jerry" Vultee, Smith's chief design engineer, leased his old airstrip from Baker Oil Tools Company, which had purchased the facility following the Great Depression. Vultee Aircraft Division, later Consolidated Vultee Aircraft Corporation, or "Convair," located near Lakewood Boulevard and Alameda Street, was Downey's largest employer during the war, producing nearly 15 percent of America's military aircraft by 1941 (City of Downey 2022; Parker 2013). During the war, the plant built 13,000 airplanes (Latimer 2010: 111). The company was a pioneer in the use of women in manufacturing positions and was the first aircraft company to build airplanes on a powered assembly line (City of Downey n.d.).

Following World War II, Downey began to shift from its rural origins to a suburban city of industry with a focus on aviation. By the late 1950s, most of the agricultural areas were replaced by residential subdivisions, commercial centers, and industrial developments. Downey again tried to become an incorporated city in 1956; this time, the attempt was a success (Downey Historical Society n.d.). In December 1956, the City of Downey, with a population of approximately 90,000 people living within an area of 11.5 square miles, was incorporated as a general law city; in 1965, it became a charter city.

Shortly after its incorporation in 1962, Glen Bell opened the first Taco Bell in Downey; the first restaurant would close in 1986, and the building was set for demolition in 2015. Fortunately, the building was saved and moved 45 miles to the Taco Bell Corporate Office in Irvine (Nichols 2015; Parvini 2015).

In the late 1940s, the Vultee plant was converted from plane to ballistic missile technology. In the 1950s, it became North American Aviation's Downey Plant, known as Air Force Plant 16, shifting its focus from aircraft manufacturing to supersonic aerodynamics and rocket propulsion. (Latimer 2010: 118). After President John F. Kennedy committed in the early 1960s to landing a person on the moon before the end of the decade, Downey became home to the Project Apollo Spacecraft Development Program, involving over 23,000 employees (Blackburn 2009: 8). In 1967, North American Aviation, Inc. would merge with Rockwell International, and together bid and win the NASA contract to build the new Space Shuttle Orbiter Vehicle in 1972 (City of Downey 2022). For the next two decades, Downey's Rockwell plant would produce and test many of the 20th century's space, aviation, and missile endeavors that would become benchmarks for manned spacecraft engineering.

By the early 1970s, the Rockwell International facilities encompassed some 1,700,000 square feet of enclosed area over more than 200 acres. Following the Cold War, however, Downey was hit hard by cutbacks in the defense budget. Rockwell International, which once had more than 30,000 employees, had fewer than 5,000 in 1992. In 1996, the Rockwell International site was purchased by the Boeing Company, but two years later, Boeing decided to leave Downey. The 70-year history of airplane and space vehicle manufacturing in Downey came to an end when the plant closed in 1999. The property was purchased by the City of Downey and underwent a series of redevelopment projects. A total of 26 buildings were demolished in the early 2000s.

As of 2009, 23 original structures were still remaining on-site. The central parcel, including Building 1 (the Vultee and North American production facility), Building 6 (North American Rockwell design facility), and Building 290 (Apollo and shuttle final assembly areas), has been preserved and used by the Downey Studios (Blackburn 2009: 85; Harrison 2006: 6). More demolitions followed in the 2010s. In 2023, only a portion of historic Building 1 at 12214 Lakewood Boulevard and 8855 Apollo Way remains in place. The rest of the site became host to the Columbia Memorial Space Sciences Learning Center (built in 2009), the Downey Landing shopping center, a Kaiser Permanente hospital, and a city recreation park (City of Downey n.d.). None of the Vultee/North American Aviation structures have been designated as historic landmarks.

5.0 HISTORY OF THE PROJECT SITE

The analysis of historic topographic maps, aerial imagery, and parcel history data shows that the entire project area was agricultural from the late 19th century until 1950 (Gittelhough and Robbins-Wade 2023:14). In 1951, the industrial development of the area was started by the Rheem Corporation. Originally, Rheem's property included adjacent parcels 6284-019-010 and 6284-019-011 to the east (11711 Woodruff Avenue and 11899 Woodruff Avenue) and parcel 6284-019-068 to the west (9236-9244 Hall Road) (Plates 1 and 2). Select building permits for the project site are included as Appendix C.

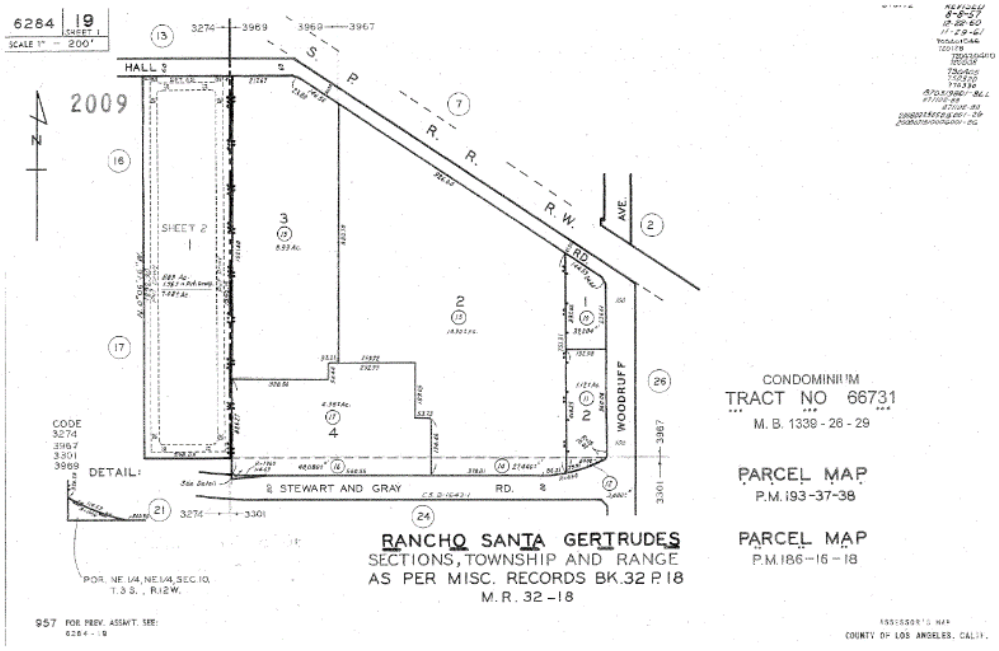


Plate 1. Parcel Map. County of Los Angeles Assessor's Portal

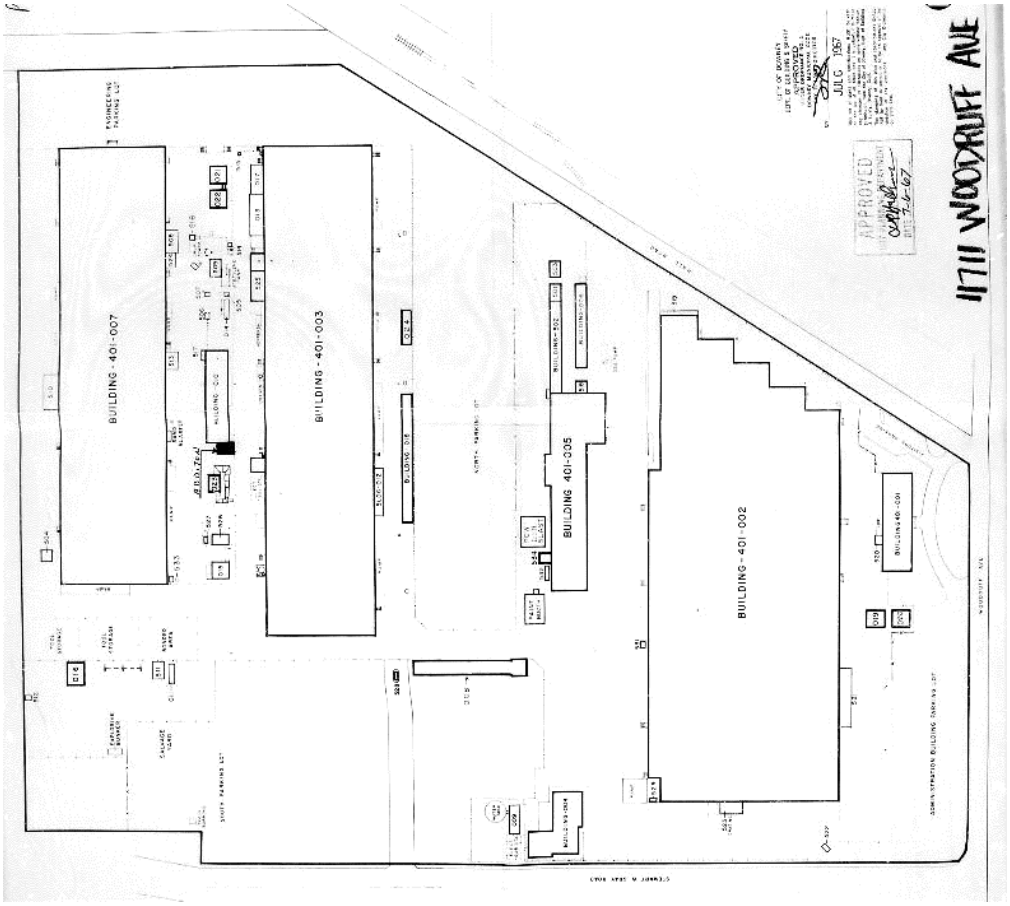


Plate 2. Site Plan. 1967. City of Downey Planning Department

5.1 RHEEM MANUFACTURING COMPANY

Rheem Manufacturing Company was established by brothers Richard “R.S.” Rheem and Donald “D.L.” Rheem, in Emeryville, CA, in 1925. The founders were the sons of William S. Rheem, former Standard Oil Company of California president. Rheem is still in existence and has produced a variety of products in its nearly 100 years of operation. According to the company’s website, Rheem is currently the only manufacturer in the world that produces heating, cooling, water heating, pool and spa heating, and commercial refrigeration products, and it is the largest manufacturer of water heating products in North America (Rheem 2022a). Initially, Rheem Manufacturing Co. created galvanized steel oil drums; in 1930, it began full-scale manufacturing of water heaters, boilers, and tanks at its plants in California, Texas, Ohio, New Jersey, Illinois, Louisiana, Maryland, and Australia. In the following decades, it added shipping containers, bathroom fixtures, musical instruments, automotive parts, and war equipment (Rheem 2022b).

During World War II, much of the company’s efforts went towards wartime production, including building ships and aircraft parts. In 1942, Rheem purchased the former American Radiator and Standard Sanitary Corp. plant in Birmingham, Alabama, to produce ordnance materials. In 1944, Rheem acquired a substantial interest in Piatt-LePage Aircraft Company of Eddystone, Pennsylvania, which manufactured helicopters. In 1945, seven Rheem plants received Army-Navy "E" awards and several renewal stars for outstanding excellence in production. After the war, Rheem began an extensive reconversion program to modernize and streamline operations for peacetime production, shifting back to consumer markets (Rheem 2022c).

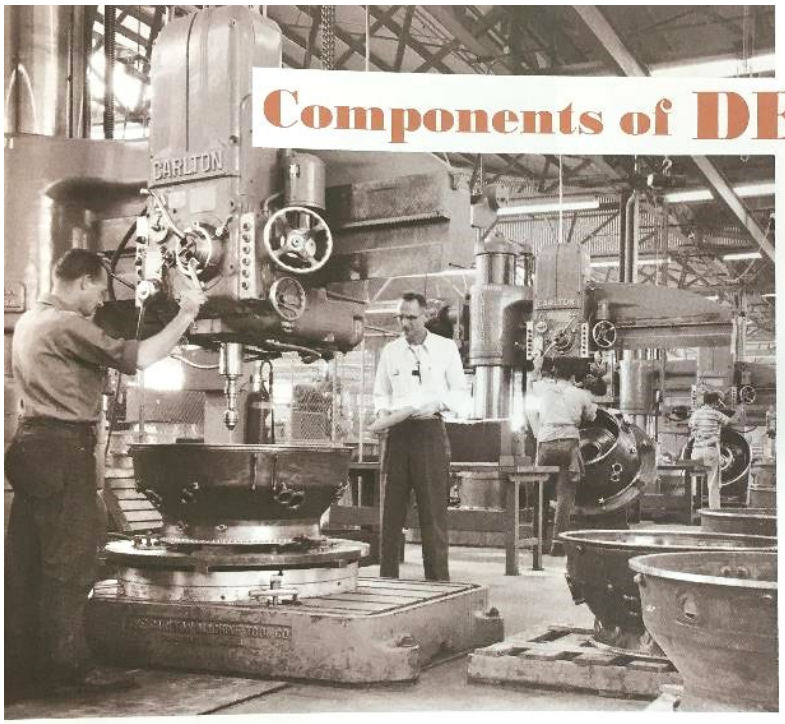
However, Rheem did not abandon military production. In 1951, it formed the Government Products Division to resume aircraft and ordnance work. The same year, Rheem Manufacturing Co. received a letter of intent from Northrop Aircraft for the fabrication and assembly of components for the Scorpion F-89 all-weather interceptor. Los Angeles Daily News reported that preliminary work started at Rheem’s South Gate plant, but actual fabrication and assembly were to continue at the new Downey factory (Los Angeles Daily News 1951). Another commission came from Lockheed Jet Aircraft (Long Beach Press Telegram 1951: 33).

In 1951, the $2,000,000 steel aircraft part manufacturing plant in Downey was constructed in record time on a 50-acre site at 11711 South Woodruff Avenue in Downey (the address of the Rheem Administration Building that later became a separate property outside of the project site). That year, the Los Angeles Times classified pages printed Rheem’s ads for employment on a weekly basis. The Aircraft Division was hiring tool designers, inspectors, aircraft schedulers, machinery engineers, keypunch operators, clerks, and secretaries (The Los Angeles Times 1951: 47). The original employment goal was between 800 and 1000 workers; in 1958, the Downey plant had 3,500 employers.

RHEEM MANUFACTURING. Rheem Manufacturing was another aerospace company in Downey. The Defense and Technical Products Division of Rheem Manufacturing built this SD-2 surveillance drone for the U.S. Army.

Plate 3. Source: Blackburn, Gerald A. Downey Aerospace History: 1947-1999. P. 111

Plate 4. Winter storm flooding in Downey, on Hall Road next to Rheem plant. January 1952. Courtesy of the Downey Historical Society.



Components of DEFENSE

The power plant operation of the Defense and Technical Products Division of Rheem Manufacturing Company in Downey, California, is one of the largest west of the Rocky Mountains devoted to the manufacture of power plant components. The power plant facility has in excess of 200,000 square feet of area under roof devoted exclusively to manufacture of units for aircraft turbine engines, solid and liquid propellant rocket engines and related products. This view shows work on components, and the modern machines used in processing all grades of stainless steels, titanium, nickel base alloys and cobalt base alloys.

At the very heart of modern aircraft manufacture are the critical component parts and assemblies which the final assembly manufacturer fits into his finished product. The design and manufacture of these components is among the most difficult and critical work of all.

Such is the sort of work performed by the 400 engineers and 3,500 shop employees of Rheem Manufacturing Company's Aircraft Division in Downey. Working in a plant with the most modern facilities and 600,000 square feet of plant area, these men and women meet exacting standards of sheet metal and machine shop manufacture. The engineering staff takes on the difficult problems of research and design.

The Downey plant of Rheem currently engages in three principal types of production. For missiles, they produce such components as control surfaces, empennage, nose and fuselage sections, and other parts. Work also includes production of components for the nation's newest high priority aircraft.

Above: Rheem has been an active and advanced manufacturer of ordnance weapons for the armed forces. Current work includes a wide range of testing, engineering and manufacturing programs. This development, much of which includes classified jobs, consists of warhead systems, fusing systems, ballistic studies, practice bombs, explosive research, mines, and mining techniques. This photograph shows high production handling of missile components in the Defense and Technical Products Division plant at Downey.

Components of Defense

(Continued From Page One Hundred Six)

A second major activity of the company is production of components for power plants for aircraft and missiles.

The Division makes a specialty of the so-called "hot" components such as after-burners, turbine nozzles, guide vanes and diffusers. The Division's components are used for motors in the entire rocket motor field.

The Division's third major activity is production of components for many weapons of ordinance. These components include warheads, fusing systems, and some complete weapons systems.

While potentially destructive, these products are the necessary weapons in the arsenal of freedom today.

Exterior view of Rheem's Building.

Plates 5-7. Downey: Gracious Living, Future Unlimited. Downey Chamber of Commerce, 1958. P. 106, 108, 109 Courtesy of the Downey Historical Society.

Plate 8. Air Corps News Letter
Vol. 36. July 1953. P. 21

Plate 9. Air Corps News Letter
Vol. 36. November 1953. P. 17

Plate 10. Army Magazine.
Vol. 9. August 1958. P. 47

Plate 11. Western Aviation Magazine.
Vol. 39. January 1959. P. 2

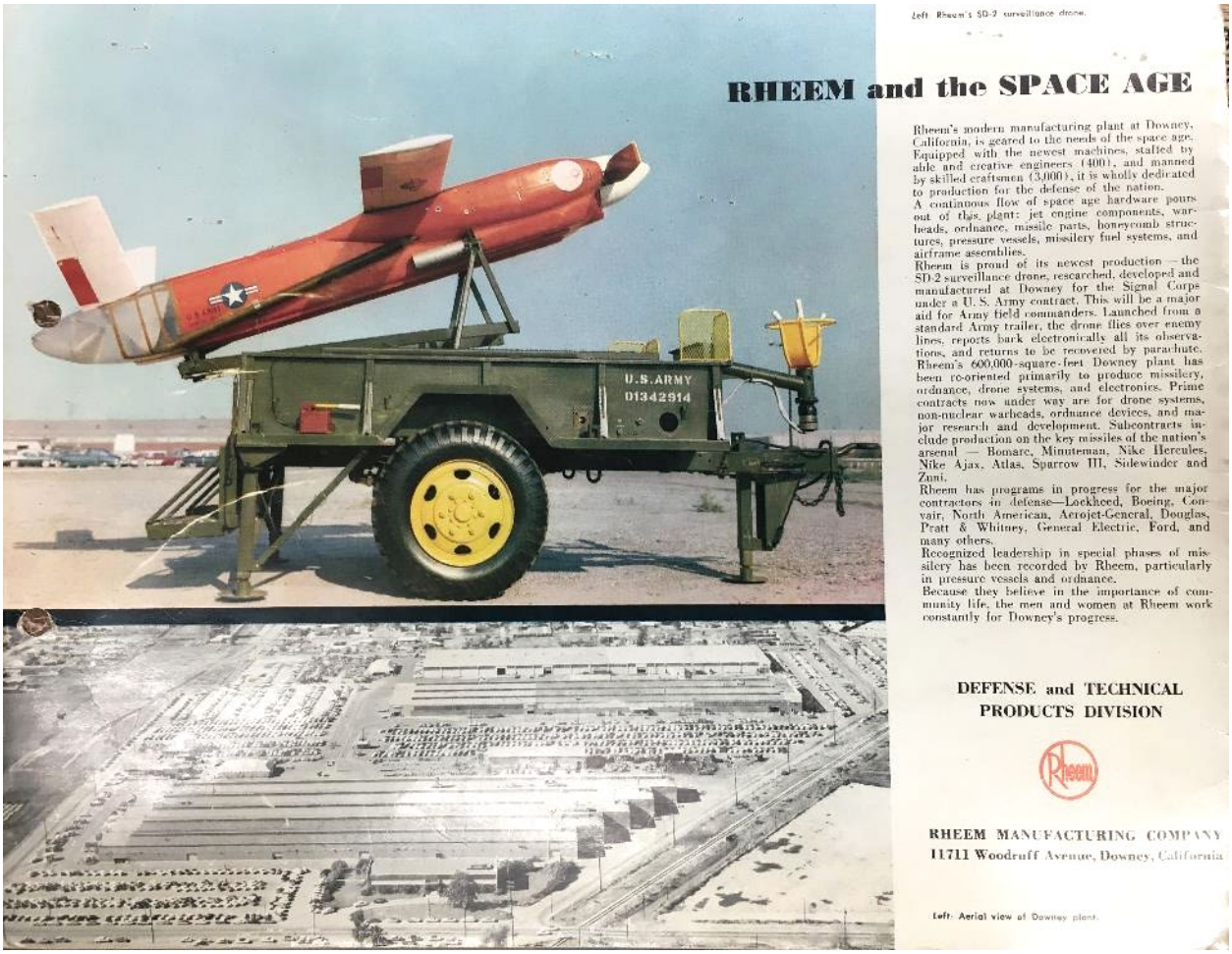


Plate 12. Downey: Gracious Living, Future Unlimited. Downey Chamber of Commerce, 1958. P. 106, 108, 109 Courtesy of the Downey Historical Society.

The most promoted product of Rheem's plant in Downey was the AN/USD-2 surveillance drone designed and manufactured for the Signal Corps. The plant also produced jet engine components and airframe parts, along with fuses, rockets, practice bombs, grenades, land and underwater mines, non-nuclear warheads, and other explosives.

Rheem Aircraft Plant in Downey became an important staple for the community. It was a popular site for school field trips, such as the Lowell Cub Scouts visit in January 1953, which was a part of their study of transportation. Each boy received a packet of colored pictures and watched the aircraft parts being assembled (La Habra Star 1953). In the late 1950s, Rheem Corporation regularly appeared in newspapers because of workers' strikes and labor union disputes.

In 1958, Richard and Donald Rheem resigned from the Board of Directors of Rheem Manufacturing Company. The same year, Rheem received a 1.2 million dollar contract from the U.S. Army Ordnance District for the fabrication of warheads and fuses for the Nike-Hercules missile. The production was supposed to be done at the Downey plant and at the newly built Ordnance Loading facility in Riverside, California (South Gate Press 1958: 1). However, in the next year (1959), both plants had been sold to Aerojet General Corporation (San Bernardino Sun 1959).

5.2 ALBEN RANDOLF FROBERG

Rheem Manufacturing Company was a fast-developing and progressive business. For designing its new plants, Rheem invited experienced industrial architects and engineers and used modern technologies. The South Gate Manufacturing Plant at 4361 Firestone Boulevard in South Gate, CA, just five miles away from Downey, was designed in the mid-1940s by the prominent architectural company of Wurdeman and Becket (Arts & Architecture 1950: 2; Online Archives of California [OAC] 2022a). Walter Wurdeman and Welton David Becket would later become famous for the Bullock's Department Store in Pasadena. Landscape plans for the South Gate plant were prepared by a notable landscape designer Ruth Patricia Shellhorn (OAC 2022b).

The primary architect of Rheem's plant in Downey was Alben Randolf Froberg of Oakland (City of Downey Building Records; AIA 1953). Froberg specialized in "industrial structures of any size and dollar value" (AIA 1953: 3). Most of his projects were implemented in the Bay Area; Rheem's Downey plant seems to be his only commission in Southern California. The clue to this commission can be the long-term acquaintance between Froberg and the Rheem brothers. In 1931, the architect designed Richard S. Rheem's residence at 20 Bellevue Avenue in Piedmont, California (Olds 1931: 69-71).

Alben Randolf Froberg (1890-1968) was born in Eureka, California, in a family of Finnish background. In 1913, he graduated from the University of California in Berkeley with a B.S. degree in Architecture and Civil Engineering; he obtained his architect's license in August 1915. The 1920 city directory lists him working as a draftsman in San Francisco for Frederick Whitton; in 1925, he established his own practice. Froberg was a member of the AIA and the President of the East Bay Chapter in 1946 (Ancestry.com; PCAD 2022). His early projects represent features of the Art Deco and Streamline Moderne styles. His work includes:

- Laher Auto Spring Company Factory, 2619-25 Magnolia Street, Oakland, CA (1925)
- Gray Shop (women's clothing), 2000 Broadway, Oakland, CA (1930, demolished)
- R.S. Rheem's Residence, 20 Bellevue Avenue, Piedmont, CA (1931)
- Commercial building, 1771-1775 Broadway, Oakland, CA (1932)
- Marshall Steel Company Cleaning Plant, 5427 Telegraph Avenue, Oakland, CA (1934)
- Williams and Slade Building (remodel), 2029 Broadway, Oakland, CA (1935, demolished)
- Office building, 2398 Valley Street, Oakland, CA (1938)
- United Engineering Company Shipyard, General Engineering & Drydock, Building 19, 2900 Main Street, Alameda, CA
- Consolidated Freightways Warehouse, 1700 24th Street, Oakland, CA (1940-41)
- Pacific Steel Casting Co. Foundry, 1333 Second Street, Berkeley, CA (1943)
- Frozen Food Storage Distribution Plant, 955 57th Street, Oakland, CA (1945)
- Frank Werner Company (women's shoes), 2020 Broadway, Oakland, CA (1946, demolished)
- Connell Motor Company, Oldsmobile Dealership, 3093 Broadway, Oakland, CA (1946-1947, demolished)

- Challenge Cream and Butter Association Plant, 708 Addison Street, Berkeley, CA (1947)
- Kawneer Manufacturing Co. (addition), 2547 Eighth Street, Berkeley, CA (1947-1950)
- I.B.'s Hoagies & Cheesesteaks, 1601 San Pablo Avenue, Oakland, CA (1950)
- Architect's own house, 5700 La Salle Avenue, Oakland, CA (1953)

In 1951-52, concurrently with Rheem's plant in Downey, Froberg designed a number of projects in Oakland: a waxed paper plant, a filter manufacturing plant, a Greyhound bus depot, a storefront factory, as well as a research building in Whittier and an ordnance plant in Richmond (the last two, most probably, also for Rheem) (AIA 1953: 4).

Although many of Froberg's industrial and commercial structures have been demolished over the years, he has gained certain recognition in the Bay Area. The General Engineering & Drydock, Building 19 in the United Engineering Company Shipyard historic district in Alameda has been determined eligible for the National Register of Historic Places, and the Kawneer Manufacturing Co. building is designated as the City of Berkeley Landmark (both historic resources include earlier structures from the 1910s). However, Froberg is practically unknown in South California and has not been recognized as a local master architect in any of the historic context statements.

Plate 13. Alben Randolf Froberg. Architect's Roster. 1953. P. 5.
The American Institute of Architects (AIA) Archives.

5.3 AEROJET GENERAL CORPORATION

Aerojet General Corporation purchased Rheem's plants in Downey and Riverside in May 1959. According to some accounts, the Rheem brothers "lost control of Rheem Manufacturing through an unfriendly take-over" (Moraga Historical Society 2022). Guy Charles Throner Jr., an engineer at Aerojet, explained that the two companies had been in competition for most of the 1950s. In 1959, Aerojet was looking for a new space to manufacture metal parts for Polaris and Minuteman rocket motors. They found Rheem's buildings in Downey, with 600,000 square feet under the roof, suitable for the task. As a side effect of the property purchase, Aerojet took over Rheem's Ordnance operation. The merger of the two companies was not flawless, and there was a great deal of tension between the two groups of employees (Throner Jr. 2014: 157).

Aerojet Engineering Corporation was established in 1941 by a group of enthusiasts from the California Institute of Technology. The founders were professors Theodore von Karman, Frank Malina, Jack Parsons, Edward S. Forman, Martin Summerfield, and Andrew Haley. It was renamed Aerojet General in 1953. During World War II, Aerojet was producing jet-assisted takeoff (JATO) rockets. The first plant was located in Pasadena, California. Aerojet became the first major U.S. company to develop expertise in both liquid and solid propellant rockets. The Aerobee class rocket launched in 1947 became the first in the U.S. to probe the edge of space. Aerojet designed and built a total of 1,182 engines for all four incarnations of the Titan rockets, which were used for civilian projects ranging from Gemini's manned flights to solar system explorations, including Viking, Voyager, and Cassini (Aerojet General n.d.). In 1969, rocket motors manufactured by Aerojet helped Apollo 11 transport astronauts to the moon. Aerojet and North American Aviation / Rockwell International plants in Downey were collaborating on a number of projects.

The documentary "Aerojet General Missile & Rocket Engines," presenting the company's facilities in Rancho Cordova, Fullerton, Chino, Canoga Park, Azuza, and Downey, praises the Ordnance Division in Downey as "devoted to sophisticated manipulation of force" (Aerojet General n.d.: 18:14). The division developed aircraft rocket engines, T-45 and T-46 warheads for the Nike-Hercules ground to air missiles, chambers for the Hawk air defense weapon, and the Thor Able system. Aerojet continued developing SD-2 multipurpose drones for the Army launched by Rheem. Drones carried optical, radar, and infrared sensors that were supposed to gather, store, and transmit battlefield surveillance information. Built in limited numbers, SD-2 drones never saw operational service (Aerojet General n.d.: 20:02).

The 1961 Downey Chamber of Commerce booklet called Aerojet General Corporation one of the "Big Three" manufacturers in town, with 4,400 employees. Aerojet was booming during the Reagan era with its defense priorities. In October 1969, Ronald Reagan visited the Aerojet General plant in Downey with his gubernatorial campaign speech (National Archives Catalog 1969). In 1989, NASA chose Aerojet and Lockheed Corporation to produce solid fuel rocket motors for the Space Shuttle program.

Aerojet General Corporation went through a series of reorganization steps in the early 1990s (Aerojet Rocketdyne Holdings 2022). The Aerojet Ordnance Division in Downey was in operation until the mid-1990s. It was gradually reducing its scale over the years – City of Downey Building Records show other users of the property. In the 1970s, Building B at 9300 Hall Road / 9301 Stuart and Gray Road belonged to Terminal Industrial Center, Ltd. Tenants included Mini Bus Inc., Boman Astrosonix (car radios, speakers, and accessories manufacturer), and Duray Inc. (sheet metal contractor).

RADIO-CONTROLLED DRONE. Local Downey high school students learn about a radio-controlled drone manufactured by Aerojet General Corporation. C. W. Sanders explains its operation to, from left to right, Esther Alexander, Rita Thomas, and Jim Kobzeff in 1958.

Plate 14. Blackburn, Gerald A. Downey Aerospace History: 1947-1999. P. 111.

Plates 15-16. Aerojet General Missile & Rocket Engines Film. Aerojet Downey plant.
Structural parts of the MO-1 reactor. 17:09 mark. **Missile chambers for Hawk weapon. 21:28 mark.**

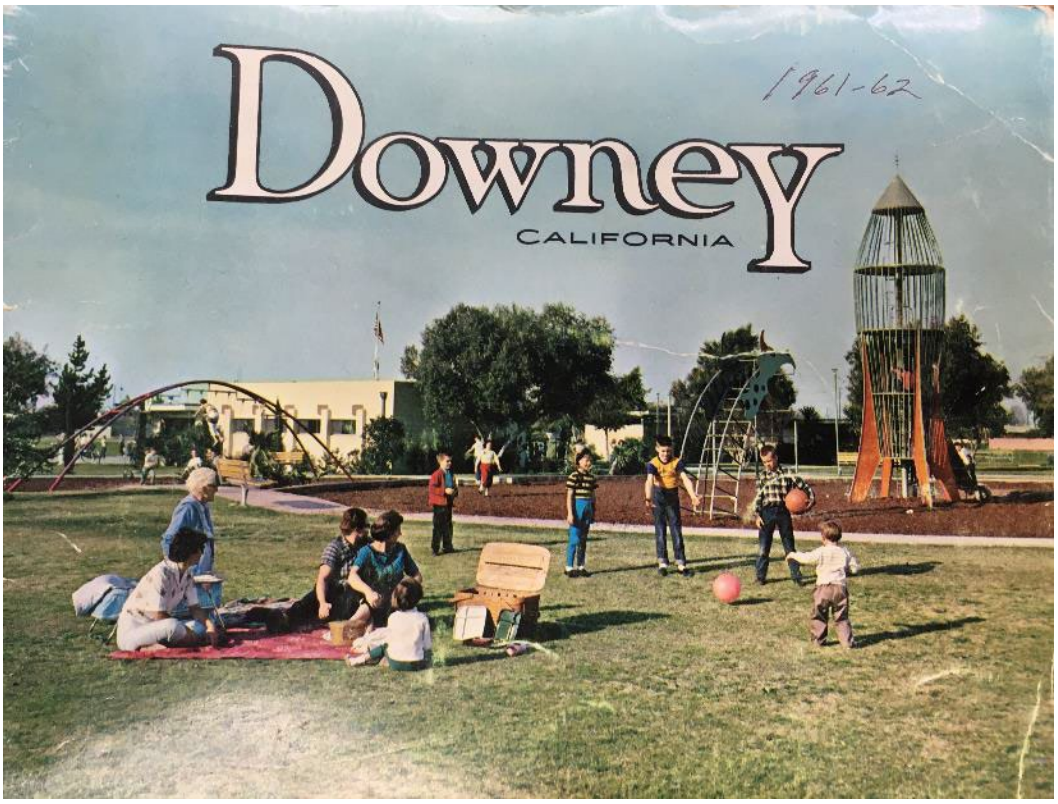


Plate 17. Downey Chamber of Commerce. 1961. Cover.

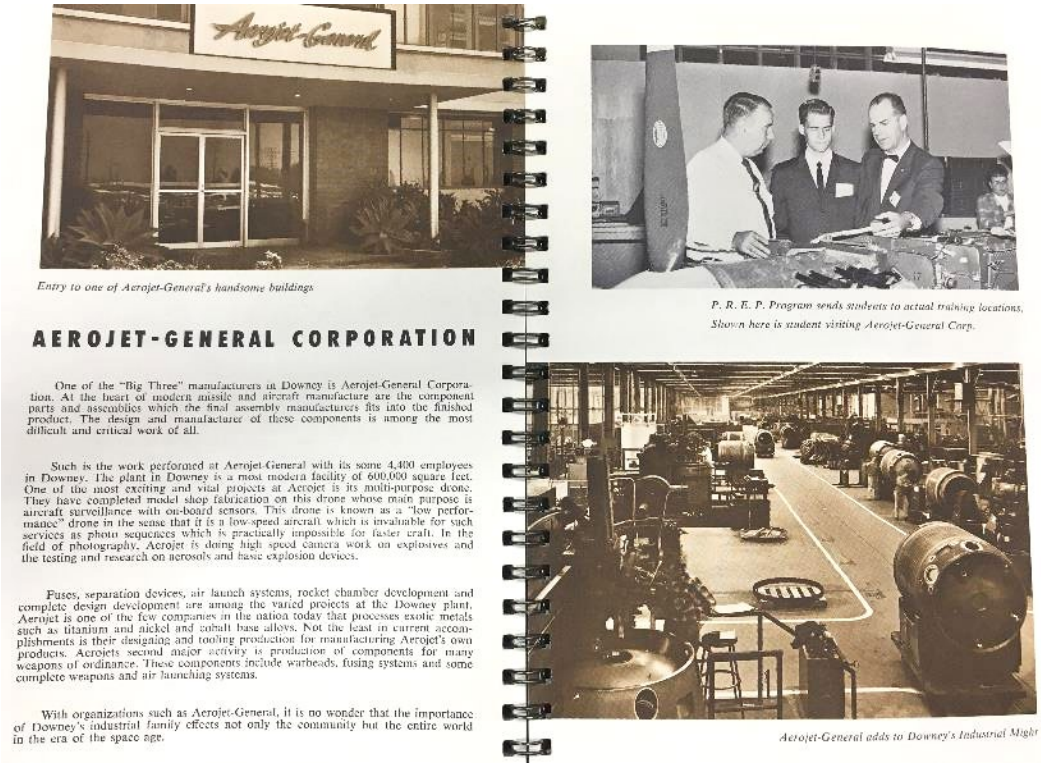


Plate 18. Downey Chamber of Commerce. 1961.

Plate 19. Downey Chamber of Commerce. 1966. P. 46.

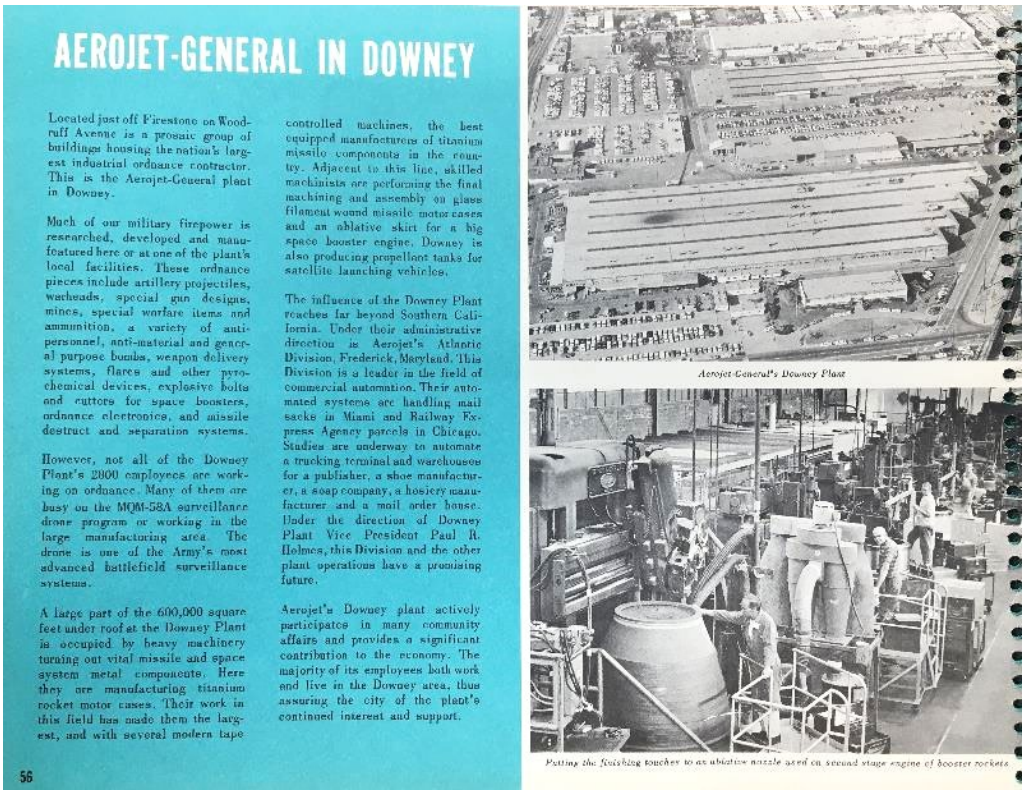


Plate 20. Downey Chamber of Commerce. 1968. P. 56.

6.0 ARCHITECTURAL DESCRIPTION

The following section provides an architectural description of the portions of the subject properties evaluated in this study. An overview of the facility is provided, followed by detailed descriptions of each of the four evaluated structures and features.

6.1 OVERVIEW OF SUBJECT PROPERTIES

The project site is located in the City of Downey, at the northwest corner of the intersection of Stewart and Gray Road and Woodruff Avenue. It is bordered by Hall Road to the north, commercial buildings to the east, Stewart and Gray Road to the south, and industrial buildings to the west. The 29.165-acre irregularly shaped project site consists of five parcels (APNs 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-016, and 6284-019-017) and includes four buildings:

- Building A (9400 (9350) Hall Road and 9399 (9401) Stewart and Gray Road), built in 1951;
- Building B (9300 Hall Road and 9301 Stewart and Gray Road), built in 1951-1956;
- Building C (9350 (9400) Hall Road), built in 1951-1957;
- Building D (9333 (9363) Stewart and Gray Road), built c. 1967.

Originally, the property included adjacent parcels to the east and to the west:

- 6284-019-010 (11711 Woodruff Avenue), original Rheem Manufacturing Company Administrative Building built in 1951;
- 6284-019-011 (11899 Woodruff Avenue);
- 6284-019-068 (9236-9244 Hall Road), original Rheem Manufacturing Company Research & Development Laboratories (demolished and replaced with a new building in 2008).

The numbering of the buildings and their parts is inconsistent between the Los Angeles County Assessor's Portal and postal addresses used by current tenants (see Figure 1 and Plates 1 and 2). The project site has multiple canopy structures that are not considered to be permanent buildings and are not described in this section.

6.2 BUILDING ONE

The main manufacturing facility, Building A, was built in 1951 in the east portion of the current project site (parcel 6284-019-013). The north portion of the building is addressed as 9400 (9350) Hall Road; the south portion of the building is addressed as 9399 (9401) Stewart and Gray Road. The building area is 244,664 square feet (per Los Angeles [LA] County Assessor's Portal).

The building features an irregular rectangular floor plan and consists of five aisles oriented north-south. The width of the building is 300 feet, and the length along the longer west side is about 825 feet. The primary north elevation follows the angle of Hall Road, with each aisle stepping back by approximately 35 feet, with loading docks on the face of four aisles (excluding the west one). A pedestrian access door is present on the east elevation. A concrete loading ramp with a metal canopy runs along the southmost half of the west elevation with multiple openings.

North elevation from Hall Road, loading docks (southeast perspective)

East elevation, pedestrian entrance (southwest perspective)

West elevation, southern half of the building (southeast perspective)

West elevation, northern and southern portions meet (east perspective)

Interior, roof view (south perspective)

West elevation, loading ramp (north perspective)

Plates 21-26. Building A. 9400 (9350) Hall Road.

The walls are built of red brick (painted white in the interior). The upper portion of the walls (besides a rear part of the west elevation) is clad with non-original golden-tone corrugated metal. The southern part of the building reveals narrow horizontal windows in the upper part of the wall filled in with glass blocks. In the southmost part of the building, original glass blocks are replaced with new windows.

The height of the building is 19’ 8”. A saw-tooth roof is comprised of five ridges covering individual aisles, with west slopes glazed to admit daylight. The corrugated metal roof is supported by metal trusses resting on steel I-beams and posts. The interior is divided into two parts by a demising wall.

6.3 BUILDING TWO

The manufacturing/warehouse facility, Building B, was built in 1951 in the west portion of the current project site (parcel 6284-019-015). The north portion of the building is addressed as 9300 Hall Road; the south portion of the building, added by 1956, is addressed as 9301 Stewart and Gray Road. The building area is 153,884 square feet (per LA County Assessor's Portal).

The building features a rectangular floor plan and consists of three aisles oriented north-south. The width of the building is 180 feet, and the length along the west side is about 830 feet. The northern portion of the building facing Hall Road accommodates two-story offices. The primary north elevation is clad with red brick veneer and smooth stucco on the upper part. A wide horizontal stucco parapet screens the roof gables. Two rows of square windows are divided by fluted partitions to create a feeling of transparency. The windows have narrow steel frames with divided lights.

The central portion of the façade features a projecting entry area with glass doors and an overhanging canopy. Originally, the sides of the entry area were open, and the canopy was supported by round posts; the sides were filled in with brick later. The 1961 Downey Chamber of Commerce booklet called it an "entry to one of Aerojet-General's handsome buildings" (see Plate 17).

The side elevations past the front area feature brick walls on the bottom and steel ribbon windows with divided lights on the upper part (mostly, painted over). The east elevation is relatively unremarkable. The west elevation features multiple openings, loading docks with rolling doors, ramps, temporary canopies, and sheds. The south (rear) elevation features large sliding barn doors under three roof gables.

A saw-tooth roof is comprised of three ridges covering individual aisles, with west slopes glazed to admit daylight. The corrugated metal roof is supported by metal trusses resting on steel I-beams and posts. The interior is divided into two parts by a demising wall. The rear (southern) portion of the building features a two-story built-in wood office structure.

North elevation from Hall Road (south perspective)

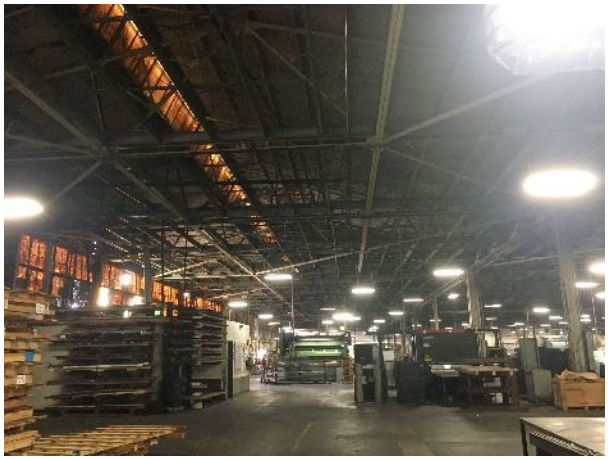
North elevation, entry area (southwest perspective)

East elevation, looking from the front
(southwest perspective)

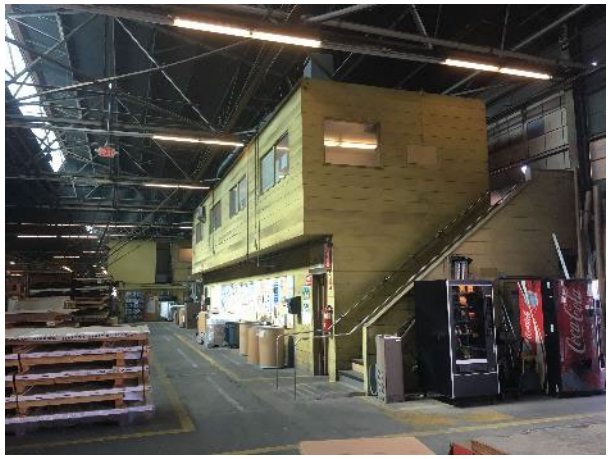
West elevation, metal shed
(northeast perspective)

West elevation, loading ramp
(northeast perspective)

South elevation
(northeast perspective)



Interior, middle part, roof view
(south perspective)



Interior, rear part, built-in office
(southwest perspective)

Plates 27-33. Building B. 9300 Hall Road and 9301 Stewart and Gray Road.

6.4 BUILDING THREE

The warehouse facility, Building C, was built in 1951 in the central portion of the current project site (parcel 6284-019-013). The south portion of the building was added by 1957. The building is addressed as 9350 or 9400 Hall Road. The building area is 24,788 square feet (per LA County Assessor's Portal).

The building features a rectangular floor plan and a gabled roof. The height of the building is 19' 8". The width of the building is 61 feet, and the length is 341 feet. The walls and the roof are made of corrugated metal; the roof is supported with steel trusses. A pedestrian access door and several random openings are present on the east elevation.

A large metal shed with paper pulp recycling equipment is present on the west side of the rear portion of the building. The shed is not original to the project site.

East elevation, older part of the building (northwest perspective)

East elevation, later addition (west perspective)

Interior (south perspective)

South elevation, metal shed to the west (north perspective)

Plates 34-37. Building C. 9350 (9400) Hall Road.

6.5 BUILDING FOUR

The office facility, Building D, was built circa 1967 in the south portion of the current project site (parcel 6284-019-017). The building is addressed as 9333 or 9363 Stewart and Gray Road. The building area is 6,924 square feet (per LA County Assessor's Portal). One of the 1980s site plans indicates that the building was used as a hospital and a fire house.

The one-story building features a rectangular floor plan and a flat roof. The width of the building is 38 feet, and the length is 190 feet. The walls are stucco. The primary east elevation features an entry door, two windows, and a rolling garage door. Three cast concrete benches of Mid-century design are present at the front of the building.

East elevation
(west perspective)

East elevation, benches
(west perspective)

Southeast corner and south elevation
(northwest perspective)

Northeast corner and north elevation
(southwest perspective)

Plates 38-41. Building D. 9333 (9363) Stewart and Gray Road.

7.0 EVALUATION

This section includes historical significance evaluations for the property under the NRHP and CRHR significance criteria, as well as integrity considerations.

7.1 SIGNIFICANCE CRITERIA A/1

NRHP Criterion A: Is associated with events that have made a significant contribution to the broad patterns of our history

Criterion 1: It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage

The subject property **does not appear eligible** under Criteria A/1. Although Rheem Manufacturing Company and Aerojet General Corporation were important for the development of the aerospace industry in Downey, their role was secondary in comparison with the role of a much larger industrial site – Vultee Aircraft Division / North American Aviation / Rockwell International plant, once located only two blocks away. Being the ordnance plant closely connected with the U.S. Army, Rheem / Aerojet facilities remained more secretive and censored than their famous neighbor. Aerojet Ordnance Division ceased its activity by the mid-1990s; the original equipment and memorabilia were removed from the property. During the redevelopment of the Vultee / North American Aviation site, none of the structures have been considered valuable or designated as historic landmarks. The City of Downey chose to commemorate its aerospace industry history by creating Columbia Memorial Space Sciences Learning Center. The structures on the subject property also do not appear significant to the broad patterns of national or state history.

Therefore, the property **does not appear eligible for listing in the NRHP or CRHR under Criteria A/1**.

7.2 SIGNIFICANCE CRITERIA B/2

NRHP Criterion B: Is associated with the lives of persons significant in our past.

Criterion 2: It is associated with the lives of persons important in our past.

The subject property does not appear eligible under Criteria B/2. Research conducted for this study did not suggest that the subject properties, either in whole or in part, are significant for an association with important individuals who made significant contributions at the local, state, or national level. Richard S. Rheem and Donald L. Rheem, founders of Rheem Manufacturing Company, were prominent businessmen and residents of the Bay Area; however, they do not appear to be historically significant individuals on the state or national level, and they did not play a significant role at the local level.

Therefore, the property **does not appear eligible for listing in the NRHP or CRHR under Criteria B/2**.

7.3 SIGNIFICANCE CRITERIA C/3

NRHP Criterion C: Embodies the distinctive characteristics of a type, period, or method of installation, or represents the work of a master, possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction.

Criterion 3: It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

The subject property does not appear eligible under Criteria C/3. Buildings A and B were designed by an Oakland architect, Alben Randolf Froberg. Froberg specialized in industrial structures; his early projects represent features of the Art Deco and Streamline Moderne styles. Froberg was a member of the AIA and the President of the East Bay Chapter in 1946. Despite his active work in the Bay Area, Froberg is practically unknown in Southern California and has not been recognized as a local master architect in any historic context statements for the area. Rheem's Downey plant seems to be his only commission in Southern California.

Although buildings A and B incorporate characteristic elements of industrial architecture from the early 1950s (stepped floor plan, brick walls, saw-tooth roof with steel trusses, windows with divided lights and glass blocks), its design and construction method are typical of industrial buildings of similar age in the region. They are neither distinctive nor representative enough to render the buildings as important examples of properties of their type. They do not reflect outstanding or distinctive design, the work of a master, method of construction, or possess high artistic value. Additionally, both buildings have undergone significant alterations compromising their integrity of design, materials, workmanship, and feeling. Buildings C and D are utilitarian structures and do not possess any architectural value.

Therefore, the subject property **does not appear eligible for listing in the NRHP or CRHR under Criteria C/3**.

7.4 SIGNIFICANCE CRITERIA D/4

NRHP Criterion D: It has yielded, or may be likely to yield, information important in prehistory or history.

Criterion 4: It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

The subject property does not appear eligible under Criterion D/4. This Criterion is most relevant for archaeological sites, but it can be applied to historic built-environment resources if further study has the potential to yield information that cannot be obtained from other sources. However, historical information about industrial buildings operating after 1951 is prevalent, and further study of the property would not add any new information to the historic record.

Therefore, the subject property **does not appear eligible for listing in the NRHP or CRHR under Criterion D/4.**

8.0 CONCLUSION

As noted previously, the proposed project would include the demolition of the existing four buildings (totaling approximately 433,000 square feet) and the construction of an approximately 535,110-square-foot industrial concrete tilt-up building for warehouse/logistics uses.

As a result of this intensive-level evaluation, the subject property **does not appear eligible for federal or state listing**. Historical background research demonstrates that industrial buildings at 9300, 9350, and 9400 Hall Road and 9301, 9333 (9363), and 9399 (9401) Stewart and Gray Road are not associated with any significant historic events or person(s). The buildings were not designed by master architects nor are they exemplary embodiments of an architectural style. All four buildings were found not historically significant and, therefore, **not eligible for the NRHP/CRHR**. Therefore, the buildings at 9300, 9350, and 9400 Hall Road and 9301, 9333 (9363), and 9399 (9401) Stewart and Gray Road **do not qualify as historical resources for the purposes of CEQA**.

A copy of this report and DPR 523 forms documenting the subject buildings will be placed on file at the SCCIC for inclusion in the California Historical Resources Information System. The DPR forms are attached as Appendix A.

Based on the results of the current study, no historic properties will be affected by the Prologis Stewart and Gray Road Warehouse Project.

9.0 REFERENCES

Aerojet General
n.d. Aerojet General Missile & Rocket Engines Film. Theodore Von Karman. Electronic resources available at: https://www.youtube.com/watch?v=-bIMxK8TX0Q, accessed September 15, 2022.

Aerojet Rocketdyne Holdings
2022 Aerojet Rocketdyne Company History Timeline. Electronic resources available at: https://www.zippia.com/aerojet-rocketdyne-careers-269/history/?src=sp-popout-timed, accessed September 15, 2022.

Air Corps News Letter
1953 Air Corps News Letter. Vol. 36. July & November 1953. Accessed via Google Books.

American Institute of Architects (AIA) Historical Directory of American Architects
1953 Alben Randolf Froberg. Architect's Roster. Electronic resources available at: https://content.aia.org/sites/default/files/2018-09/FrobeAlben_roster.pdf, accessed September 5, 2022.

Army Magazine
1958 Army Magazine. Association of the United States Army. Vol. 9. August 1958. Accessed via Google Books.

Arts & Architecture
1950 P-F Built-Up Roofs! Arts & Architecture. December 1950. P.2. Electronic resource available at: https://usmodernist.org/AA/AA-1950-12.pdf, accessed September 6, 2022.

Blackburn, Gerald A.
2009 Downey Aerospace History: 1947-1999. Aerospace Legacy Foundation. Arcadia Publishing.

Brady, Cyrus Townsend
1905 Famous American Duels. Munsey's Magazine Vol 33, No. 1. Electronic resource available at: https://www.google.com/books/edition/Munsey_s_Magazine_for/sy0AAAAAYAAJ?hl=en&gbpv=1&bsq=flake+merced&pg=PA608&printsec=frontcover, accessed April 14, 2022.

Bruce, Bobbi
2017 Things You Didn't Know About Downey: Downey Train Station. The Downey Patriot. Electronic resource available at: https://www.thedowneypatriot.com/articles/things-you-didnt-know-about-downey-downey-train-station, accessed April 15, 2022.

Buena Park Historical Society
2006 The Spanish Colonization. Electronic resource available at: https://web.archive.org/web/20080907222324/http:/www.historicalsociety.org/pages/page2.asp, accessed April 14, 2022.

California Digital Newspaper Collection
2022 Electronic resource available at: https://cdnc.ucr.edu/. Accessed August-October 2022.

City of Downey
n.d. City History and Profile. Electronic resource available at: https://www.downeyca.org/our-city/city-profile, accessed April 14, 2022.

2005 General Plan (Vision 2025), Chapter 8: Design. Electronic resource available at: https://www.downeyca.org/home/showpublisheddocument/148/636977201792100000, accessed July 12, 2022.

2022 Innovators & Explorers: The Past Inspires the Future. City of Downey - Columbia Memorial Space Center. Electronic resource available at: https://artsandculture.google.com/story/OwVBj9tTa0KNLQ?hl=en, accessed August 25, 2022.

City of Downey Planning Department
Building Records, 1951-2015.

Downey Chamber of Commerce
1958 Downey: Gracious Living, Future Unlimited.
1961 Downey, California.
1966 Downey, California.
1968 Downey, California.

Downey Historical Society
n.d. Downey Historical Chronology. Electronic resource available at: http://downeyhistoricalsociety.org/chrono1a.htm#City, accessed April 14, 2022.

Dyson, Verne
1927 The Old Ranchos That are Buried in Los Angeles. The Los Angeles Times Sunday Magazine, December 18:12-13, 23. Los Angeles. Electronic resource available at: https://www.newspapers.com/image/?spot=25458857, accessed April 14, 2022.

Harrison, Katrina
2006 NASA Industrial Plant, Manufacturing & Testing Facility (Building No. 11). Historic American Engineering Record (HAER No. CA-310-T).

Huntington Digital Library
2022 The Huntington Digital Library, Map Collection. Electronic resource available at: https://cdm16003.contentdm.oclc.org/, accessed February 16, 2022.

Gittelhough, Trevor, and Mary Robbins-Wade
2023 Prologis Stewart and Gray Road Warehouse Project. Cultural Resources Study. HELIX Environmental Planning, Inc., La Mesa, California. Prepared for the City of Downey.

La Habra Star
1953 Lowell Cubs Take Trip. La Habra Star, Volume XXXVII, Number 31, 29 January 1953. Accessed via Newspapers.com.

Latimer, Larry
2010 Downey: Images of America. Downey Historical Society. Arcadia Publishing.

Long Beach Press Telegram
1951 Rheem Will Make Parts for Lockheed. Long Beach Press Telegram. 28 February 1951. Page 33. Accessed via Newspapers.com.

Los Angeles Daily News
1951 From Drums to Scorpions. Los Angeles Daily News, 20 April 1951. Accessed via Newspapers.com.

Moraga Historical Society
2022 Donald Laird Rheem, "father" of the Rheem Valley. Electronic recourse available at: https://moragahistory.org/moraga-history/people/people-donald_laird_rheem/, accessed September 10, 2022.

National Archives Catalog
1966 Ronald Reagan Campaign Speech at Aerojet General in Downey, California. October 14, 1966. Electronic recourse available at: https://catalog.archives.gov/id/169488045, accessed September 15, 2022.

NETR Online
2022 Historic Aerials. Nationwide Environmental Title Research, LLC. Electronic recourse available at: https://www.historicaerials.com/viewer, accessed in February-November 2022.

Nelson, Lee F.
1988 Preservation Brief 17. Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving Their Character. Electronic resource available at: https://home1.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm, accessed in September, 2022.

Nichols, Chris
2015 The First Taco Bell Will Be Saved from Demolition! Los Angeles Magazine. Electronic resource available at: https://www.lamag.com/askchris/the-first-taco-bell-will-be-saved/, accessed April 15, 2022.

OAC (Online Archives of California)
2022a Becket (MacDonald) Papers Documenting the Work of Wurdeman and Becket. Electronic resource available at: https://oac.cdlib.org/findaid/ark:/13030/c82b93f2/?query=Wurdeman+and+Becket+, accessed September 7, 2022.

2022b Ruth Patricia Shellhorn papers, 1909-2006. Electronic resource available at: https://oac.cdlib.org/findaid/ark:/13030/kt5n39s1pg/?query=Ruth+Patricia+Shellhorn+, accessed September, 7 2022.

Olds, William Lee
1931 Georgian Living Room in Piedmont Residence. Architect and Engineer. May, 1931. P. 69-71.

Parker, Dana T.
2013 Building Victory: Aircraft Manufacturing in the Los Angeles Area in World War II. Cypress, California.

Parvini, Sarah
2015 Adios, Taco Bell: Original store moves from Downey to Irvine in late-night run. The Los Angeles Times. Electronic resource available at: https://www.latimes.com/local/lanow/la-me-ln-original-taco-bell-move-20151120-story.html, accessed April 15, 2022.

Pacific Coast Architecture Database (PCAD)
2022 Alben Randolf Froberg. Electronic resource available at: https://pcad.lib.washington.edu/person/6691/, accessed September 5, 2022.

Pierce, Eric
2010 Looking Back On Gallatin Elementary School. The Downey Patriot. Electronic resource available at: https://www.thedowneypatriot.com/articles/looking-back-on-gallatin-elementary-school?format=amp, accessed April 15, 2022.

Rheem
2022a A History of Comfort. Electronic resource available at: https://www.rheem.com/about, accessed August 8, 2022.

2022b Rheem Manufacturing Company. Electronic resource available at: https://en.wikipedia.org/wiki/Rheem_Manufacturing_Company, accessed August 8, 2022.

2022c Rheem Manufacturing Company Historical Time Line. Electronic resource available at: https://ashraemadison.org/downloads/Company_Histories/rheem_history.pdf, accessed August 8, 2022.

San Bernardino Sun
1959 Riverside Rheem Plant Sold to Aerojet Corp. San Bernardino Sun. Vol. 13, 10 May 1959. Accessed via Newspapers.com.

Santa Fe Springs Library
n.d. Volume 7: California – A Prize Worth Taking. Electronic resource available at: https://www.santafesprings.org/library/local_history/history/volume_7.asp, accessed April 14, 2022.

South Gate Press
1958 Rheem Gets Contracts for $1.2 Million Job. South Gate Press. 14 September 1958. Accessed via Newspapers.com.

Throner Jr., Guy Charles
2014 The Life and Exciting Times of Guy Charles Throner Jr. Xlibris Corporation.

The Los Angeles Times
1951 Rheem Mfg. Corp Employment Ad. The Los Angeles Times, 19 September 1951. Accessed via Newspapers.com.

The Rancho Los Cerritos Site
n.d. History. Electronic resource, available at: https://www.rancholoscerritos.org/about-hub/history-hub/, accessed April 14, 2022.

University of California, Santa Barbara
2022 UC Santa Barbara Library. Aerial Photography Collection. Electronic resource available at: https://mil.library.ucsb.edu/ap_indexes/FrameFinder/. Accessed February-November, 2022.

U.S. Department of the Interior, National Park Service
1985 National Register Bulletin 24: Guidelines for Local Surveys: A Basis for Preservation Planning. Washington, DC. Electronic document available at: https://www.nps.gov/subjects/nationalregister/upload/NRB24-Complete_Part1t.pdf, accessed in September, 2022.

1997 National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation. Washington D.C. (Revised in 2002).

1998 National Register Bulletin 43: Guidelines for Evaluating and Documenting Historic Aviation Properties. Washington D.C. Electronic document available at: https://www.nps.gov/subjects/nationalregister/upload/NRB43-Complete.pdf, accessed in September, 2022.

USGS Historical Topographic Map Explorer
2022 Electronic resource available at: https://livingatlas.arcgis.com/topoexplorer/index.html. Accessed in August-October 2022.

Western Aviation Magazine
1959 Western Aviation, including Missiles, and Space Industry. Vol. 39. January 1959. Accessed via Google Books.

Western Machinery and Steel World
1952 Intricate Forming: New Defense Plant Had Heavy Equipment. Western Machinery and Steel World. Vol. 43, 1952. P. 101, 115.

Willey, H.I.
1886 Report of the Surveyor General of the State of California from August 1, 1884 to August 1, 1886. Sacramento, California. Electronic resource, available at: http://www.slc.ca.gov/wp-content/uploads/2018/08/Willey_1884_1886.pdf, accessed April 14, 2022.

This page intentionally left blank

Appendix A

Department of Parks and Recreation
Series 523 Forms

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #:
HRI #
Trinomial:
NRHP Status Code: 6Z

Other Listings _____
Review Code _____ Reviewer _____ Date _____

***Resource Name or #:** SGR1-4

P1. Other Identifier:

***P2. Location:** ■ **Not for Publication** □ **Unrestricted** ***a. County:** Los Angeles

and

***b. USGS 7.5' Quad:** Whittier **Date:** 1981 **T** 3S; **R** 12W; Unsectioned; S.B.**B.M.**

c. Address: 9300, 9350, and 9400 Hall Rd and 9301, 9333, and 9399 Stewart and Gray Rd City: Downey Zip: 90241

d. UTM: Zone 11N, 396573 mE/ 3754880 mN (Approximate center of property; G.P.S.)

e. Other Locational Data: The property is located at the northwest corner of the intersection of Stewart and Gray Rd and Woodruff Ave, within APNs 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-016, and 6284-019-017. Elevation: 100-110 ft AMSL.

***P3a. Description:**

This resource consists of the following four rectangular buildings: Building A (9400 (9350) Hall Road and 9399 (9401) Stewart and Gray Road), built in 1951; Building B (9300 Hall Road and 9301 Stewart and Gray Road), built in 1951-1956; Building C (9350 (9400) Hall Road), built in 1951-1957; Building D (9333 (9363) Stewart and Gray Road), built c. 1967.

The buildings consist of one manufacturing facility (Building A), an office facility (Building D), and two warehouse facilities (Buildings B and C). While all four structures are over the age of 50 years, none are eligible for listing on the NRHP or CRHR, and do not qualify as historical resources for the purposes of CEQA.

***P3b. Resource Attributes:** HP8. Industrial Building

***P4. Resources Present:** ■ Building □ Structure □ Object ☐ Site □ District □ Element of District □ Other

P5b. Description of Photo:
Overview of the south elevation of Building A, view to the north.

***P6. Date Constructed/Age and Source:**
■ Historic ☐ Prehistoric □ Both
1951 to 1967 (LA County Assessor's Portal)

***P7. Owner and Address:**
Prologis Inc.
2141 Rosecrans Avenue
Suite 1151
El Segundo, CA 90245

***P8. Recorded by:**
Marina Khrustaleva
HELIX Environmental Planning
7578 El Cajon Boulevard
La Mesa, CA 91942

***P9. Date Recorded:**
June 10, 2022

***P10. Survey Type:**
Historic Architectural Pedestrian Survey

***P11. Report Citation:**
Khrustaleva, Marina, Trevor Gittelhough, and James Turner. 2023. Prologis Stewart and Gray Road Warehouse Project Historic Resources Evaluation Report. Prepared for the City of Downey by HELIX Environmental Planning.

***Attachments:**
□ NONE ■ Location Map □ Sketch Map ■ Continuation Sheet ■ Building, Structure, and Object Record □ Archaeological Record □ District Record □ Linear Feature Record □ Milling Station Record □ Rock Art Record □ Artifact Record □ Photograph Record □ Other (List): _____

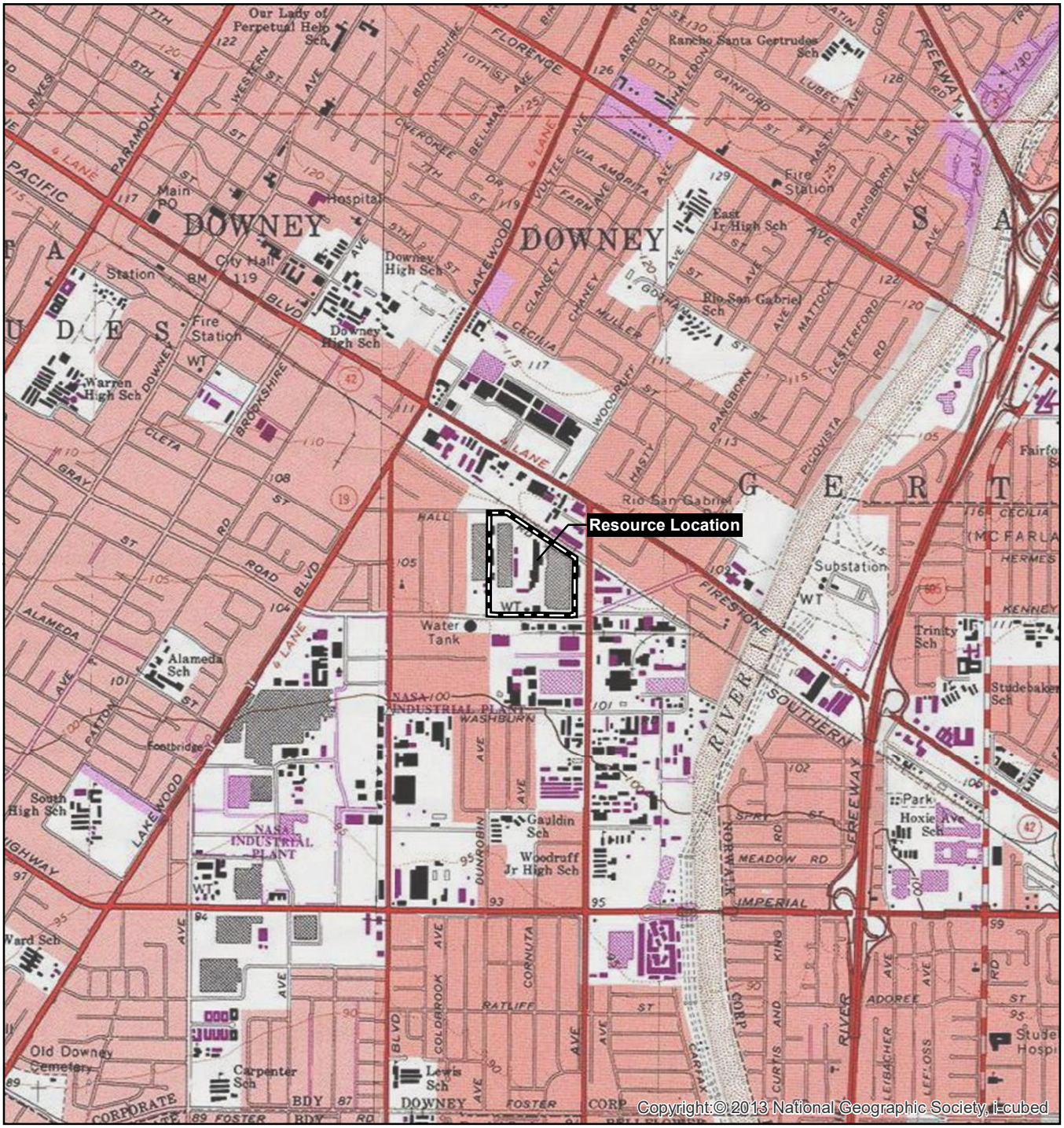
State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #:
HRI #
Trinomial:

***Resource Name or #:** SGR1-4

***Map Name:** Whittier ***Scale:** 1:24,000 ***Date:** 1981



SCALE 1:24,000

1 0.5 0 1 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 Feet

1 0.5 0 1 Kilometers

TRUE NORTH

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #:** SGR1-4, Building A ***NRHP Status Code:** 6Z

B1. Historic Name: _____ B2. Common Name: 9400 Hall Road and 9399 Stewart and Gray Road
B3. Original Use: Manufacturing Facility B4. Present Use: Same
***B5. Architectural Style:** Industrial
***B6. Construction History:**
Building A, located at 9400 Hall Road, was built in 1951 by the Rheem Corporation. In 1959, the property was sold to the Aerojet General Corporation who owned and operated the facility until the 1990s.

***B7. Moved?** ■**No** □**Yes** □**Unknown Date:** _____ **Original Location:** _____
***B8. Related Features:**
Related features include structures built by the Rheem Manufacturing Company or Aerojet General Corporation, such as Building B (9300 Hall Road and 9301 Stewart and Gray Road), built in 1951-1956; Building C (9350 (9400) Hall Road), built in 1951-1957; and Building D (9333 (9363) Stewart and Gray Road), built c. 1967.

Architect: Alben Randolf Froberg b. Builder: Unknown
***B10. Significance: Theme**: Industry **Area:** LA County
Period of Significance: _____ **Property Type**: _____ **Applicable Criteria:** None

Significance Criteria A/1: The subject property does not appear eligible under Criteria A/1. Although Rheem Manufacturing Company and Aerojet General Corporation were important for the development of the aerospace industry in Downey, their role was secondary in comparison with the role of a much larger industrial site – Vultee Aircraft Division / North American Aviation / Rockwell International plant, once located only two blocks away. Aerojet Ordnance Division ceased its activity by the mid-1990s; the original equipment and memorabilia was removed from the property. The structures on the subject property also do not appear significant to the broad patterns of national or state history. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria A/1.

Significance Criteria B/2: The subject property does not appear eligible under Criteria B/2. Research conducted for this study did not suggest that the subject properties, either in whole or in part, are significant for an association with important individuals who made significant contributions at the local, state, or national level. Richard S. Rheem and Donald L. Rheem, founders of Rheem Manufacturing Company, were prominent businessmen and residents of the Bay Area; however, they do not appear to be historically significant individuals on the state or national level, and they did not play a significant role at the local level. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria B/2.

Significance Criteria C/3: The subject property does not appear eligible under Criteria C/3. While the building was designed Alben Randolf Froberg, Froberg is practically unknown in Southern California and has not been recognized as a local master architect in any historic context statements for the area. Rheem's Downey plant seems to be his only commission in Southern California. Additionally the building's design and construction method are typical of industrial buildings of similar age in the region. They are neither distinctive nor representative enough to render the buildings as important examples of properties of their type. They do not reflect outstanding or distinctive design, the work of a master, method of construction, or possess high artistic value. Additionally, it has undergone significant alterations compromising their integrity of design, materials, workmanship, and feeling. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criteria C/3.

Significance Criteria D/4: The subject property does not appear eligible under Criterion D/4. Historical information about industrial buildings operating after 1951 is prevalent, and further study of the property would not add any new information to the historic record. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criterion D/4.

B11. Additional Resource Attributes: _____

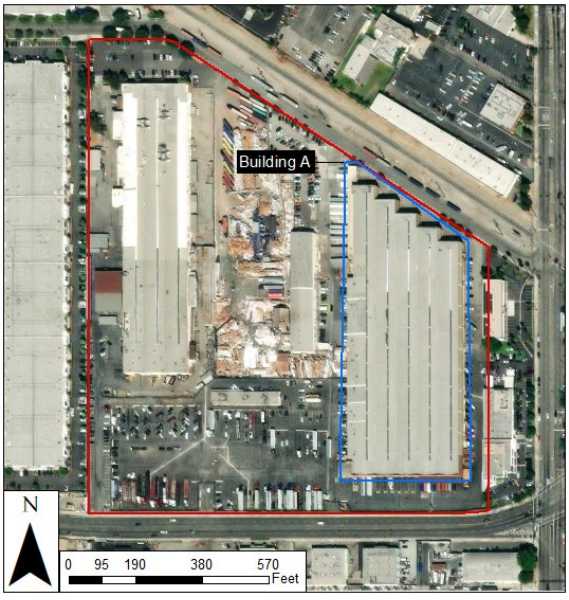
***B12. References:**

Khrustaleva, Marina, Trevor Gittelhough, and James Turner. 2023. Prologis Stewart and Gray Road Warehouse Project Historic Resources Evaluation Report. Prepared for the City of Downey by HELIX Environmental Planning.

B13. Remarks:

***B14. Evaluator:** Marina Khrustaleva
***Date of Evaluation:** June 2022

(This space reserved for official comments.)



BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #:** SGR1-4, Building B ***NRHP Status Code:** 6Z

B1. Historic Name: _____ B2. Common Name: 9300 Hall Road and 9301 Stewart and Gray Road
B3. Original Use: Manufacturing/Warehouse Facility B4. Present Use: Same
***B5. Architectural Style:** Industrial
***B6. Construction History:**
Building B, located at 9300 Hall Road, was built in 1951 by the Rheem Corporation. In 1959, the property was sold to the Aerojet General Corporation who owned and operated the facility until the 1990s. The southern portion of the building was added by 1956.

***B7. Moved?** ■**No** □**Yes** □**Unknown Date:**_____ **Original Location:**_____
***B8. Related Features:**
Related features include structures built by the Rheem Manufacturing Company or Aerojet General Corporation, such as Building A (9400 Hall Road and 9399 Stewart and Gray Road), built in 1951-1956; Building C (9350 (9400) Hall Road), built in 1951-1957; and Building D (9333 (9363) Stewart and Gray Road), built c. 1967.

B9a. Architect: Alben Randolf Froberg b. Builder: Unknown
***B10. Significance: Theme**: Industry **Area:** LA County
Period of Significance: _____ **Property Type**: _____ **Applicable Criteria:** None

Significance Criteria A/1: The subject property does not appear eligible under Criteria A/1. Although Rheem Manufacturing Company and Aerojet General Corporation were important for the development of the aerospace industry in Downey, their role was secondary in comparison with the role of a much larger industrial site – Vultee Aircraft Division / North American Aviation / Rockwell International plant, once located only two blocks away. Aerojet Ordnance Division ceased its activity by the mid-1990s; the original equipment and memorabilia was removed from the property. The structures on the subject property also do not appear significant to the broad patterns of national or state history. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria A/1.

Significance Criteria B/2: The subject property does not appear eligible under Criteria B/2. Research conducted for this study did not suggest that the subject properties, either in whole or in part, are significant for an association with important individuals who made significant contributions at the local, state, or national level. Richard S. Rheem and Donald L. Rheem, founders of Rheem Manufacturing Company, were prominent businessmen and residents of the Bay Area; however, they do not appear to be historically significant individuals on the state or national level, and they did not play a significant role at the local level. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria B/2.

Significance Criteria C/3: The subject property does not appear eligible under Criteria C/3. While the building was designed Alben Randolf Froberg, Froberg is practically unknown in Southern California and has not been recognized as a local master architect in any historic context statements for the area. Rheem's Downey plant seems to be his only commission in Southern California. Additionally the building's design and construction method are typical of industrial buildings of similar age in the region. They are neither distinctive nor representative enough to render the buildings as important examples of properties of their type. They do not reflect outstanding or distinctive design, the work of a master, method of construction, or possess high artistic value. Additionally, it has undergone significant alterations compromising their integrity of design, materials, workmanship, and feeling. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criteria C/3.

Significance Criteria D/4: The subject property does not appear eligible under Criterion D/4. Historical information about industrial buildings operating after 1951 is prevalent, and further study of the property would not add any new information to the historic record. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criterion D/4.

B11. Additional Resource Attributes: _____

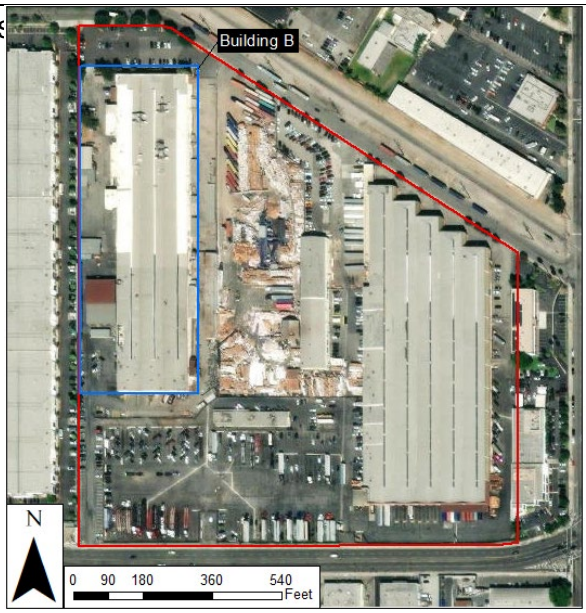
***B12. References:**

Khrustaleva, Marina, Trevor Gittelhough, and James Turner. 2023. Prologis Stewart and Gray Road Warehouse Project Historic Resources Evaluation Report. Prepared for the City of Downey by HELIX Environmental Planning.

B13. Remarks:

***B14. Evaluator:** Marina Khrustaleva
***Date of Evaluation:** June 2022

(This space reserved for official comments.)



State of California - The Resources Agency Primary # _____
DEPARTMENT OF PARKS AND RECREATION HRI# _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #:** SGR1-4, Building C ***NRHP Status Code:** 6Z
Page 5 **of** 5

B1. Historic Name: _____ B2. Common Name: 9350 Hall Road
B3. Original Use: Manufacturing/Warehouse Facility B4. Present Use: Same
***B5. Architectural Style:** Utilitarian/Industrial
***B6. Construction History:**
Building C, located at 9350 Hall Road, was built in 1951 by the Rheem Corporation. In 1959, the property was sold to the Aerojet General Corporation who owned and operated the facility until the 1990s. The southern portion of the building was added sometime prior to 1957.

***B7. Moved?** ■No □Yes □Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
Related features include structures built by the Rheem Manufacturing Company or Aerojet General Corporation, such as Building A (9400 Hall Road and 9399 Stewart and Gray Road), built in 1951-1956; Building B (9300 Hall Road and 9301 Stewart and Gray Road), built in 1951-1956; and Building D (9333 (9363) Stewart and Gray Road), built c. 1967.

B9a. Architect: Alben Randolf Froberg b. Builder: Unknown
***B10. Significance: Theme**: Industry **Area:** LA County
Period of Significance: _____ **Property Type**: _____ **Applicable Criteria:** None

Significance Criteria A/1: The subject property does not appear eligible under Criteria A/1. Although Rheem Manufacturing Company and Aerojet General Corporation were important for the development of the aerospace industry in Downey, their role was secondary in comparison with the role of a much larger industrial site – Vultee Aircraft Division / North American Aviation / Rockwell International plant, once located only two blocks away. Aerojet Ordnance Division ceased its activity by the mid-1990s; the original equipment and memorabilia was removed from the property. The structures on the subject property also do not appear significant to the broad patterns of national or state history. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria A/1.

Significance Criteria B/2: The subject property does not appear eligible under Criteria B/2. Research conducted for this study did not suggest that the subject properties, either in whole or in part, are significant for an association with important individuals who made significant contributions at the local, state, or national level. Richard S. Rheem and Donald L. Rheem, founders of Rheem Manufacturing Company, were prominent businessmen and residents of the Bay Area; however, they do not appear to be historically significant individuals on the state or national level, and they did not play a significant role at the local level. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria B/2.

Significance Criteria C/3: The subject property does not appear eligible under Criteria C/3. While the building was designed Alben Randolf Froberg, Froberg is practically unknown in Southern California and has not been recognized as a local master architect in any historic context statements for the area. Rheem's Downey plant seems to be his only commission in Southern California. Additionally, the building is a typical utilitarian structure and does not possess any architectural value. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criteria C/3.

Significance Criteria D/4: The subject property does not appear eligible under Criterion D/4. Historical information about industrial buildings operating after 1951 is prevalent, and further study of the property would not add any new information to the historic record. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criterion D/4.

B11. Additional Resource Attributes: _____

***B12. References:**

Khrustaleva, Marina, Trevor Gittelhough, and James Turner. 2023. Prologis Stewart and Gray Road Warehouse Project Historic Resources Evaluation Report. Prepared for the City of Downey by HELIX Environmental Planning.

B13. Remarks:

***B14. Evaluator:** Marina Khrustaleva
***Date of Evaluation:** June 2022

(This space reserved for official comments.)

State of California - The Resources Agency Primary # _____
DEPARTMENT OF PARKS AND RECREATION HRI# _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #:** SGR1-4, Building D ***NRHP Status Code:** 6Z
Page 6 **of** 7

B1. Historic Name: _____ B2. Common Name: 9333 Stewart and Gray Road
B3. Original Use: Hospital/Firehouse B4. Present Use: Offices
***B5. Architectural Style:** Utilitarian
***B6. Construction History:**
Building D, located at 9333 Stewart and Gray Road, was built sometime around 1967 by Aerojet General Corporation, who owned and operated the facility until the 1990s.

***B7. Moved?** ■No ☐Yes ☐Unknown **Date:**_____ **Original Location:**_____
***B8. Related Features:**
Related features include structures built by the Rheem Manufacturing Company or Aerojet General Corporation, such as Building A (9400 Hall Road and 9399 Stewart and Gray Road), built in 1951-1956; Building B (9300 Hall Road and 9301 Stewart and Gray Road), built in 1951-1956; and Building C (9350 (9400) Hall Road), built in 1951-1957.

B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme**: Industry **Area:** LA County
Period of Significance: _____ **Property Type**: _____ **Applicable Criteria:** None

Significance Criteria A/1: The subject property does not appear eligible under Criteria A/1. Although Rheem Manufacturing Company and Aerojet General Corporation were important for the development of the aerospace industry in Downey, their role was secondary in comparison with the role of a much larger industrial site – Vultee Aircraft Division / North American Aviation / Rockwell International plant, once located only two blocks away. Aerojet Ordnance Division ceased its activity by the mid-1990s; the original equipment and memorabilia was removed from the property. The structures on the subject property also do not appear significant to the broad patterns of national or state history. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria A/1.

Significance Criteria B/2: The subject property does not appear eligible under Criteria B/2. Research conducted for this study did not suggest that the subject properties, either in whole or in part, are significant for an association with important individuals who made significant contributions at the local, state, or national level. Richard S. Rheem and Donald L. Rheem, founders of Rheem Manufacturing Company, were prominent businessmen and residents of the Bay Area; however, they do not appear to be historically significant individuals on the state or national level, and they did not play a significant role at the local level. Therefore, the property does not appear eligible for listing in the NRHP or CRHR under Criteria B/2.

Significance Criteria C/3: The subject property does not appear eligible under Criteria C/3. The building is a typical utilitarian structure and does not possess any architectural value. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criteria C/3.

Significance Criteria D/4: The subject property does not appear eligible under Criterion D/4. Historical information about industrial buildings operating after 1951 is prevalent, and further study of the property would not add any new information to the historic record. Therefore, the subject property does not appear eligible for listing in the NRHP or CRHR under Criterion D/4.

B11. Additional Resource Attributes: _____

***B12. References:**

Khrustaleva, Marina, Trevor Gittelhough, and James Turner. 2023. Prologis Stewart and Gray Road Warehouse Project Historic Resources Evaluation Report. Prepared for the City of Downey by HELIX Environmental Planning.

B13. Remarks:

***B14. Evaluator:** Marina Khrustaleva
***Date of Evaluation:** June 2022

(This space reserved for official comments.)

Building A, north elevation from Hall Road, loading docks (southeast perspective).

Building C, South elevation, metal shed to the west (north perspective).

Building B, north elevation from Hall Road, (south perspective).

Building D, Northeast corner and north elevation (southwest perspective).

Appendix B

Resumes of Key Personnel

Marina Khrustaleva, MA

Architectural Historian

HELIX Environmental Planning

Summary of Qualifications

Ms. Khrustaleva is a qualified Historian and Architectural Historian with more than 20 years of experience preparing historic background information and historic contexts, and evaluating buildings and structures under federal, state, and local regulatory requirements. Her expertise includes applying the Secretary of the Interior's Standards for the Treatment of Historic Properties, archival research, historic surveys, significance evaluations, landmark designations, and historic districts documentation. She has completed studies for residential, commercial, military, and industrial properties across California and abroad. She has prepared numerous technical reports including Historical Resources Evaluation Reports (HRERs), Historic Property Survey Reports (HPSRs), Landmark Nomination Forms, and Mills Art Applications to satisfy compliance requirements under California Environmental Quality Act (CEQA) and local governments preservation ordinances. Ms. Khrustaleva has worked for government agencies, non-profit organizations, and private clients in California. She has served as a guest lecturer at the University of Southern California, the University of California at Los Angeles, Caltech, and University of Erasmus (Rotterdam).

Selected Experience

Downey Big Box Historic Resources Evaluation Report (HRER), City of Downey, Downey, California (2023). Architectural Historian for the preparation of an HRER for the Prologis Stewart and Gray Road Warehouse Project in Downey. The subject structures operated as manufacturing and warehouse facilities for Rheem Manufacturing Company and Aerojet General Corporation from 1951 through the early 1990s. Managed an intensive-level HRER that relied on a literature review, archival research, site inspection, and an evaluation of the property in accordance with applicable eligibility criteria. Evaluation included a historic context research for the aerospace industry development in Downey, an analysis of the historic integrity of the complex and its components, and recordation of the resource on the appropriate California Department of Parks and Recreation (DPR) Series 523 forms. Work performed for the City of Downey/Prologis Inc.

Hicks Canyon Channel Restoration Project Historic Resources Evaluation Report, Irvine, Orange County, California (2022). Architectural Historian for the preparation of an HRER for the improvement of a 13.5-acre portion of the existing Hicks Canyon Wash stormwater conveyance, including bank remediation for stability and access, storm drain extensions, and landscaping. Managed an intensive-level HRER that relied on a literature review, archival research, a site inspection, and an evaluation of the property in accordance with applicable eligibility criteria. Documented

Education

Master of Arts in Cultural Management/ Historic Preservation, Moscow Higher School of Social and Economic Sciences /University of Manchester, UK (2003)

Master of Arts, Russian State University of Humanities, Art History/ Architectural History (2000)

Bachelor of Arts, Russian State University of Humanities, Art History/Architectural History (1999)

Professional Certification

International Visitors Leadership Program in Heritage Preservation, USA, 2011

Professional Affiliations

California Preservation Foundation

South Pasadena Preservation Foundation

My Liveable City magazine

Getty Research Institute

the subject structures on California Department of Parks and Recreation (DPR) Series 523 forms. Work performed for BFK Engineers.

Pure Water Southern California Project Cultural Resources Survey/Constraints Analysis, Los Angeles County, California (2022). As Architectural Historian, conducted a historic built environment constraints analysis to support the construction of water purification facilities, a new backbone conveyance system (including pipeline and pump stations), and various appurtenant facilities as required to convey purified water. Conducted a reconnaissance-level survey to examine and photo-document the exterior of potential historic buildings and structures falling within the Pure Water project area. Prepared resource descriptions, details of architectural style and sub-style, modern modifications and additions, and information on current condition and integrity. Work performed for Metropolitan Water District of Southern California.

Frank Gehry Catalogue Raisonné, Volumes 2 and 3 (2022). As Architectural Historian, researched Frank Gehry's archive at the Getty Research Institute Special Collections to identify visual materials to be included into the printed catalog and analyzed written documents to reconstruct the history of each project, for the period of 1978-1989. Work performed for Editions Cahiers d'Art (France).

South Pasadena's Design Standards and Design Guidelines for ADUs on Historic Properties (2021). As City of South Padadena's Interim Associate Planner, coordinated the development of Design Standards and Design Guidelines for accessory dwelling units on historic properties. The project was a part of the State Office of Historic Preservation CLG grant program (grants for Certified Local Governments). It was implemented with the help of a consultant, Architectural Resources Group, and received the California Preservation Award in 2022. Work performed for the City of South Pasadena.

South Pasadena Local Landmark Nominations (2019-2023). As Architectural Historian, prepared HRERs, Landmark Nomination forms, Mills Act contract applications for a number of historic resources in South Pasadena, including Rollin Craftsman Cluster historic district and the mid-century Cox Residence by John Galbraith. Work performed for private clients.

Moscow Re:Industrial Report (2017-2019). Principal Historic Resources Analyst and Project Manager for a city-wide context statement on historic industrial resources. Identified and mapped over 150 industrial sites developed between 1850 and 1950; created an overview of their architectural and manufacturing history; analyzed current redevelopment strategies; and suggested best practices for adaptive reuse. The report received Golden Section award by the Moscow Union of Architects in 2021. Work performed for CENTER Agency for Strategic Development.

Historic Resources Surveys for Cities under 25,000 Residents in Russia. As Architectural Historian, prepared historic context statements and reconnaissance-level historic resources surveys for small historic cities in the Moscow Region (cities of Klin and Ruza, 2014-2015) and Irkutsk Region, Siberia (cities of Tulun, Nizhneudinsk, Zheleznogorsk-Ilimsky, 2020-2021). Surveys were conducted as a part of Specific Plan updates leading to downtown redevelopment projects. Work performed for local governments and redevelopment agencies.

EDUCATION

Master of Arts, Underwater Archaeology, East Carolina University, 2018

Bachelor of Arts, Anthropology, University of California, Santa Barbara, 2011

REGISTRATIONS/ CERTIFICATIONS

Registered Professional Archaeologist No. 17387

American Academy of Underwater Sciences, Scientific Diver

Professional Association of Diving Instructors, Certified Diver No. 0110385008

Geographic Information Systems Professional (GISP) Certification,

HAZWOPER 40-Hour Certification

PROFESSIONAL AFFILIATIONS

Society of American Archaeology

Society of Historical Archaeology

Society of California Archaeology (Advisory Council of Underwater Archaeology)

Divers Alert Network

TREVOR GITTELHOUGH, RPA

Cultural Resources Assistant Project Manager

Mx. Gittelhough is an archaeologist and assistant project manager with 11 years of experience. They specialize in underwater cultural resources, with experience in archaeology, cultural resources management, site monitoring, surveys and excavations, laboratory sorting, cataloging and analysis, and conservation. They have conducted environmental, paleontological, and cultural resources work throughout California in support of compliance with the California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), and Sections 106 and 110 of the National Historic Preservation Act (NHPA) for public and private sector clients. Mx. Gittelhough has experience in team management in the terrestrial and underwater archaeological management sectors, with expertise in implementing mitigation and monitoring projects, report production, and coordination with Indigenous groups. Their technical skills include terrestrial and submerged archaeological survey, excavation, and site testing. They have authored numerous site records and technical reports detailing the results of cultural resources work, as well as academic articles. They have also had thorough training in artifact analysis and specializes in lithic analysis and maritime conservation. Mx. Gittelhough meets the Secretary of Interior Professional Qualifications Standards in History and Archaeology.

Enchanted Hills Park Project. Cultural Resource Specialist for a 22.5-acre neighborhood park project in the City of Perris, Riverside County. Provided cultural resource monitoring during initial site work and prepared monitoring letter report. Work performed for the City of Perris.

Dam Maintenance Program. Cultural Resource Specialist for the City of San Diego Dam Maintenance Program in San Diego County. Assisted in preparing an archaeological and historic resources assessment in compliance with state and federal regulations. Scope included a cultural resource records search, review of historic maps and aerials, and preparation of a technical report. Work performed for the City of San Diego Public Utilities Department.

Bouquet Canyon Road Project. Cultural Resource Specialist for a private residential development project in the City of Santa Clarita, Los Angeles County. Monitored all ground-disturbing activities associated with geotechnical studies, such as drilling and trenching. Provided monitoring during ground-penetrating radar studies of portions of the project area. Produced monitoring report. Work performed for Integral Communities.

Lake Morena Oak Shores/Lake Morena Views Mutual Water Company Consolidation. Cultural Resource Specialist for a cultural resources study in support of a proposed water district consolidation project in eastern San Diego County. Assisted with the preparation of a cultural resources technical report in compliance with state and federal regulations and State Water Resources Control Board. Scope included a cultural

resource records search, review of historic maps and aerials, and assistance with the preparation of a technical report. Work performed for Lake Morena Oak Shores Mutual Water Company and Lake Morena Views Mutual Water Company as a subconsultant to NV5.

Shady View Residential Project Environmental Impact Report. Cultural Resource Specialist for a housing development project in the City of Chino Hills in San Bernardino County. The project involves the development of 159 single-family homes, open space and recreational amenities, and associated street, utility/infrastructure, and drainage improvements. Assisted in the preparation of the technical report in compliance with state and federal regulations. Project scope included a cultural resource records search, review of historic maps and aerials, field survey, and preparation of a technical report. Work performed for the City of Chino Hills.

California Crossings. Cultural Resource Specialist for a 29-acre industrial development in Otay Mesa, San Diego County. Conducted a cultural resources study in support of biological mitigation measures (burrowing owl habitat creation). Prepared an archaeological resources assessment in compliance with state and federal regulations. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical report. Work performed for Sudberry Development, Inc. with County of San Diego as the lead agency.

Oceanside Mission Basin Groundwater Purification Facility Well Expansion and Brine Minimization Design. Cultural Resource Specialist for a proposed groundwater wells and brine minimization project to improve water production at an existing groundwater purification facility in the City of Oceanside, San Diego County. Assisted with the preparation of the cultural resources technical report in compliance with state and federal regulations. Project scope included a cultural resources records search, tribal outreach, field survey, monitoring of geotechnical borings, preparation of a constraints memo, and preparation of a technical report. Work performed for the City of Oceanside Water Utilities Department as a subconsultant to GHD, Inc.

611 Island Ave Residential Tower. Cultural Resource Specialist for a residential tower project in the downtown area of the City of San Diego. The project plans include incorporating the existing historic façade into the new 32-story building. Assisted with the preparation of an archaeological and historic resources assessment in compliance with CEQA. Scope included a cultural resource records search, review of historic maps and aerials, and preparation of a technical report with a sensitivity assessment. Work performed for Cresleigh Homes.

EMWD Quail Valley III Regional Water Tank Environmental Consulting. Cultural Resource Specialist for a new water tank and associated piping and facilities in Riverside County. Prepared the technical report to summarize a records search, Native American outreach, archaeological survey, and research into the historic land uses of the project lands. Work performed for Pulte Group, with Eastern Municipal Water District as the CEQA lead agency.

Cactus II Feeder Pipeline Biological and Cultural Construction Monitoring. Cultural Resource Specialist for construction monitoring of the installation of a sewer line and associated facilities. Work performed for Eastern Municipal Water District.

Pasadena Water & Power Sunset Reservoir Replacement Historical Resources Evaluation. Cultural Resource Specialist for a reservoir replacement project in the City of Pasadena. Prepared a cultural resources technical analysis to support an EIR and provided support to the City of Pasadena for tribal consultation. Work performed as a subconsultant to Kennedy Jenks, with the City of Pasadena as the lead agency under CEQA.

Athletic Facility Borings Cultural Resources Monitoring. Cultural Resource Specialist for a cultural resource monitoring program in support of the proposed project on the Palomar College San Marcos Campus, San Diego County. Provided monitoring of ground disturbing activities in compliance with CEQA, resulting in the completion of a cultural resources monitoring letter report.

Arrow 32N Residential. Senior Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the City of Upland, San Bernardino County. Co-authored an archaeological technical report and assisted with a historic resources assessment report in compliance with Section 106 and CEQA. Scope included a cultural resources records search, review of historic maps and aerials, preparation of a technical report and evaluation of historic resources for inclusion to the NRHP and CRHR.

Garland Battery Energy Storage System. Senior Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the County of Los Angeles. Prepared an archaeological resources assessment and provided monitoring for all ground disturbing activities a in compliance with CEQA. Scope included a cultural resources records search, review of historic maps and aerials, pedestrian survey, preparation of a technical report, monitoring, and the preparation of a monitoring report.

Appendix C

Building Permits

B/

DEPARTMENT OF BUILDING AND SAFETY
COUNTY OF LOS ANGELES
WM. J. FOX, CHIEF ENGINEER

APPLICATION FOR PERMIT

BUILDING 1

FOR APPLICANT TO FILL IN

BUILDING ADDRESS	11711 Woodruff Ave
LOCALITY	Downey
NEAREST CROSS ST.	Hall Road
OWNER	Rheem Mfg Co
MAIL ADDRESS	Firestone Blvd
CITY	Southgate TEL. NO.
ARCHITECT OR ENGINEER	Alben Froberg TEL. NO.
ADDRESS	Oakland Cal
CONTRACTOR	Christensen & Lyons TEL. NO.
ADDRESS	Oakland Cal
LEGAL DESCRIPTION	LOT NO. / BLOCK
TRACT	metes & bounds
SIZE OF LOT	NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG.	NO. OF FAMILIES

DESCRIPTION OF WORK

NEW	X	ALTERATION		ADDITION	
REPAIR		DEMOLITION			

SQ. FT. SIZE 115200 NO. OF ROOMS 1 STORIES 1

EXT. WALL COVERING brick & G.I. ROOF COVERING ~~compo~~ G.I.

USE OF STRUCTURE manufacture of aircraft parts

BLDING PERMITS WRITTEN IN 2 PARTS FDN. 5000.00

54000.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT.

I AGREE TO COMPLY WITH THE CORRECTIONS LISTED HEREON AND WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE ~~Rheem Mfg Co~~ CHRISTENSEN & LYONS

ADDRESS Firestone Blvd

AUTHORIZED AGT. Alben Froberg

76A638A · DBS3 10-50 $ 216,000

VALUATION ~~571000~~

P. C. FEE $ 318.00

FEE $ 314.00

FOR OFFICE USE ONLY

DISTRICT NO.	PLAN CK. NO.	PERMIT NO.
4D-3	A 38152F	62385
RECEIVED BY	DATE OF APPL.	DATE ISSUED
Ky	5/22/51	9/12/51

BUILDING ADDRESS	11711 S WOODRUFF
LOCALITY	Downey
NEAREST CROSS ST.	HALL Rd
FIRE ZONE	NO. OF PLANS / TYPE V / GROUP S
BLDG. SETBACK LINE	50' Fpl ORD. NO. 1444
APPROVED BY	B-1 DATE
USE ZONE	M2 APPROVED BY Howell DATE 5/27/51

HOUSE NUMBERING

MAP NUMBER 3418 FIELD CHECK BY

NO. ASSIGNED BY DATE

CORRECTIONS

FDN 5000.00

~~SUPERSTRUCTURE 571000~~

~~$ 576000~~

~~SEE Permit~~ NO 62351 8/28/51

area reduced to 54000.00

ORIG P.C. ON 571,000.00

NEW AREA 54000.00 VALUATION 216,000.00

TO 2-1171

ORIGINAL

APPROVALS

	INSPECTOR'S SIGNATURE	DATE
FOUNDATION: LOCATION FORMS, MATERIALS	[signature]	
FRAME: FIRE STOPS, BRACING, BOLTS	[signature]	5/28/52
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
PLASTER, INT.		
PLASTER, EXT.		
FINAL	[signature]	2/4/53

ENT OF BUILDING AND SAFETY
COUNTY OF LOS ANGELES
WM. J. FOX, CHIEF ENGINEER

6-28-51

APPLICATION FOR PERMIT

BUILDING

FOR APPLICANT TO FILL IN

BUILDING ADDRESS	11711 Woodruff Ave
LOCALITY	~~South Gate~~ Cal Dawning
NEAREST CROSS ST.	Hall Road
OWNER	Rheem Mfg Co
MAIL ADDRESS	Firestone Blvd.
CITY	South Gate TEL. NO. 105-8686
ARCHITECT OR ENGINEER	Albert Froberg TEL. NO.
ADDRESS	3454 Harlan St Oakland Cal
CONTRACTOR	Christensen & Lyons TEL. NO.
ADDRESS	3454 Harlan St Oakland Cal
LEGAL DESCRIPTION / LOT NO. / BLOCK	
TRACT	metes & bounds
SIZE OF LOT / NO. OF BLDGS. NOW ON LOT	
USE OF EXISTING BLDG. / NO. OF FAMILIES	

DESCRIPTION OF WORK

NEW	X	ALTERATION		ADDITION	
REPAIR		DEMOLITION			

SQ. FT. SIZE	6600	NO. OF ROOMS	3	STORIES 1
EXT. WALL COVERING	G.I	ROOF COVERING	G.I	

USE OF STRUCTURE: Drop hammer shop and maintenance bldg.

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT.
I AGREE TO COMPLY WITH THE CORRECTIONS LISTED HEREON AND WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE: Rheem Mfg Co
ADDRESS: Firestone Blvd
AUTHORIZED AGT.: Albert Froberg

76A68A · DBS8 10-50 (P)

VALUATION $ 18,000

P. C. FEE $ 28.50

FEE $

FOR OFFICE USE ONLY

DISTRICT NO.	PLAN CK. NO.	PERMIT NO.
AD-CO	A39615F	
RECEIVED BY	DATE OF APPL.	DATE ISSUED
Ky	6-26-51	

BUILDING ADDRESS	
LOCALITY	
NEAREST CROSS ST.	

FIRE ZONE	NO. OF PLANS	TYPE	GROUP
	2	II	G

BLDG. SETBACK LINE: 50' ℄ on Woodruff ORD. NO. 1493

APPROVED BY: Lowell DATE 7/3/51

USE ZONE M-2 B-1 APPROVED BY DATE

HOUSE NUMBERING

MAP NUMBER FIELD CHECK BY

NO. ASSIGNED BY DATE

CORRECTIONS

S.P. Case #785 - See att. for condition - Mfg.

11711 Woodruff Ave #3455 Cal. Dawning

ORIGINAL

APPROVALS

	INSPECTOR'S SIGNATURE	DATE
FOUNDATION: LOCATION FORMS, MATERIALS		
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
PLASTER, INT.		
PLASTER, EXT.		
FINAL		

DEPARTMENT OF BUILDING AND SAFETY
COUNTY OF LOS ANGELES
WM. J. FOX, CHIEF ENGINEER

APPLICATION FOR PERMIT
BUILDING 1

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 11711 S Woodruff AVE
LOCALITY: DOWNEY CALIF.
NEAREST CROSS ST.: FIRESTONE BLD.
OWNER: RHEEM MFG. CO.
MAIL ADDRESS: 4361 FIRESTONE BLD.
CITY: SOUTH GATE TEL. NO. LO-58686
ARCHITECT OR ENGINEER: H. F. KJERULF TEL. NO. LO-62111
ADDRESS: 11633 SO. ALAMEDA ST. L.A.
CONTRACTOR: CHRISTONSON TEL. NO. LYONS
ADDRESS: 3454 HARLAN ST. OAKLAND
LEGAL DESCRIPTION | LOT NO. | BLOCK
TRACT: SEE LEGAL DESCIPTION
SIZE OF LOT | NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG. | NO. OF FAMILIES

DESCRIPTION OF WORK

NEW	X	ALTERATION		ADDITION	
REPAIR		DEMOLITION			

SQ. FT. SIZE: 220000 NO. OF ROOMS: 1 STORIES: 1
EXT. WALL COVERING: BRICK & CORRIGATED ROOF COVERING: CORR. 1 Roo
USE OF STRUCTURE:
MANUFACTURE AND ASSEMBLY OF AIRCRAFT PARTS
FOUNDATIONS ONLY

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT.
I AGREE TO COMPLY WITH THE CORRECTIONS LISTED HEREON AND WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE: K. F. Haender Plant Eng.
ADDRESS: 4361 Firestone Bld.
AUTHORIZED AGT.: Rheem Mfg. Co.

76A638A · DB83 10-50 ~~$555.00~~
VALUATION: 200,000

P. C. FEE: $ SEE APP FOR SUPERSTRUCTRE.
FEE: $ 298.00

FOR OFFICE USE ONLY

DISTRICT NO.	PLAN CK. NO.	PERMIT NO.
4 D CO	A33845F	47162
RECEIVED BY: Jensen	DATE OF APPL.: 2-14-51	DATE ISSUED: 5-7-51

BUILDING ADDRESS: 11711 S. Woodruff
LOCALITY: Downey
NEAREST CROSS ST.: Firestone Blvd
FIRE ZONE: — NO. OF PLANS: 2 TYPE: IV GROUP: F
BLDG. SETBACK LINE: 50' FPL ORD. NO. 1494
APPROVED BY: DATE:
USE ZONE: M-2 APPROVED BY: Howell DATE: 3/6/51

HOUSE NUMBERING
MAP NUMBER: FIELD CHECK BY:
NO. ASSIGNED BY: DATE:

CORRECTIONS

ORIGINAL

APPROVALS

	INSPECTOR'S SIGNATURE	DATE
FOUNDATION: LOCATION FORMS, MATERIALS	[signature]	5/12/51
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
PLASTER, INT.		
PLASTER, EXT.		
FINAL	[signature]	5/27/52

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
WM. J. FOX, COUNTY ENGINEER

BUILDING
APPLICATION

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 11711 Woodruff Ave
LOCALITY Downey
NEAREST CROSS ST. Hall Rd.
OWNER Kheem Mfg Co.
MAIL ADDRESS 11711 Woodruff Av
CITY Downey TEL. NO.
ARCHITECT OR ENGINEER A. Froberg TEL. NO.
ADDRESS
CONTRACTOR Christensen & Lyons TEL. NO. LO 5-5495
ADDRESS 3478 Liberty Blvd - So Gate
LEGAL DESCRIPTION | LOT NO. | BLOCK
TRACT NE 1/4 Sec 10 T5S R 12W
SIZE OF LOT | NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG. | NO. OF FAMILIES

DESCRIPTION OF WORK

NEW		ALTERATION		ADDITION	
REPAIR		DEMOLITION			

SQ. FT. SIZE | NO. OF ROOMS | STORIES
EXT. WALL COVERING | ROOF COVERING
USE OF STRUCTURE Remove existing Corrugated G.I. & replacing with Brick Veneer.
INSPECTION FOR OCCUPANCY AS

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT.
I AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE Christensen & Lyons San Osoffsky
ADDRESS 3478 Liberty Blvd - S. Gate
AUTHORIZED AGT. San Osoffsky

$ 600.00 xx
VALUATION

P. C. $ FEE
FEE $ 4.

FOR OFFICE USE ONLY

DISTRICT NO.	PLAN CK. OR REC. NO.	PERMIT NO.
4.D		84198
RECEIVED BY [signature]	DATE OF APPL.	DATE ISSUED 5-7-52

BUILDING ADDRESS 11711 WOODRUFF AVE.
LOCALITY DOWNEY
NEAREST CROSS ST. HALL RD.
FIRE ZONE | NO. OF PLANS | TYPE II | GROUP F
BLDG. SETBACK LINE ESTABLISHED 1494 ORD. NO.
USE ZONE M-2 APPROVED BY DATE
HOUSE NUMBERING
MAP NUMBER 3419 NO. ASSIGNED BY

CORRECTIONS

ORIGINAL

APPROVALS

	INSPECTOR'S SIGNATURE	DATE
FOUNDATION: LOCATION FORMS, MATERIALS		
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
PLASTER, INT.		
PLASTER, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	5/27/52 [signature]	

DEPARTMENT OF COUNTY ENGINEER
DIVISION OF BUILDING AND SAFETY
COUNTY OF LOS ANGELES
WILLIAM J. FOX, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING
APPLICATION

1

4/27/53

FOR APPLICANT TO FILL IN

BUILDING ADDRESS	HALL RD
LOCALITY	Downey
NEAREST CROSS ST.	Woodruff Ave
OWNER	RHEEM MFG Co
MAIL ADDRESS	11711 Woodruff Rd
CITY	TEL. NO. TO 21171
ARCHITECT OR ENGINEER	F O BIGELOW TEL. NO. SY 66101
ADDRESS	918 E Green Pasadena
CONTRACTOR	O K Earl Jr TEL. NO. SY 66101
ADDRESS	918 E Green Pasadena
LEGAL DESCRIPTION	LOT NO. 3 BLOCK
TRACT	6796
SIZE OF LOT	298 x 1292 NO. OF BLDGS. NOW ON LOT 0
USE OF EXISTING BLDG.	NO. OF FAMILIES

DESCRIPTION OF WORK

NEW	X	ALTERATION		ADDITION	
REPAIR		DEMOLITION			

SQ. FT. SIZE 61200 NO. OF ROOMS 2 STORIES 20 ft 1 mezz

EXT. WALL COVERING Conc & Stmed ROOF COVERING Compo

USE OF STRUCTURE Whse & Engr Bldg

(1) SUPERSTRUCTURE
(2) FOUNDATION

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT.

I AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE O K Earl Jr

ADDRESS 918 E Green Pasadena

AUTHORIZED AGT. F O. Bigelow

$ 275,000
VALUATION

P. C. $ FEE 97

FEE $ 181.50

FOR OFFICE USE ONLY

DISTRICT NO.	PLAN CK. OR REC. NO.	PERMIT NO.
4D-10	68066F-1	21110
RECEIVED BY	DATE OF APPL.	DATE ISSUED
Kyatt	4/24/53	5-22-53

BUILDING ADDRESS 11711 S WOODRUFF

LOCALITY DOWNEY

NEAREST CROSS ST. HALL

FIRE ZONE | NO. OF PLANS 2 | TYPE ~~IV~~ | GROUP ~~B~~ F

BLDG. SETBACK LINE PL ORD. NO. 1494

USE ZONE M-2 B-1 APPROVED BY Lowell DATE 24 Apr 53

HOUSE NUMBERING

MAP NUMBER 3418 NO. ASSIGNED BY

CORRECTIONS

& a portion of NE 1/4 of Sec 10-3-12

STRUCTURE PLACED IN GROUP "F" OCCUPANCY -- SEE YARD LETTERS ON FILE WITH FDN. PERMIT. (a) 60' YDS ON 4 SIDES (b) AUTO. FIRE SPRINKLERS. THROUGHOUT. (1) SPECIAL INSPECTOR REQUIRED FOR WELDING OF PANEL PLATES (CONNECTIONS) & WELD PLATE PLACING. (over.)

275,000
25,000
300,000

ORIGINAL

APPROVALS

	INSPECTOR'S SIGNATURE	DATE
FOUNDATION: LOCATION FORMS, MATERIALS	[signature]	7/16/53
FRAME: FIRE STOPS, BRACING, BOLTS	Lake	7-23-53
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH. INT.	Lake	7-23-53
LATH. EXT.	Lake	7-23-53
PLASTER. INT.		
PLASTER. EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	[illegible]	[illegible]

76A638A DBS 3 9-52

R-3 3-55

APPLICATION FOR BUILDING PERMIT

1

PLANS MUST BEAR INDUSTRIAL WASTE CLEARANCE

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
WM. J. FOX, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

B

BUILDING ADDRESS 11711 S. Woodruff
LOCALITY Downey
NEAREST CROSS ST. Hall Rd.
DISTRICT NO. 99-4D | GROUP F | TYPE CONST IV | SEWER MAP BK PG
MAP NUMBER 3418 | STATE HWY YES (NO)
USE ZONE M2BJ | SPECIAL CONDITIONS Bowell 8/25/55

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	℄ 80'	PLS	Woodruff	
SIDE P. L.				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 11711 Woodruff Avenue
LOT NO. BLOCK
TRACT
SIZE OF LOT | NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG. Manufacturing
OWNER Rheem Manufacturing Company
MAIL ADDRESS 11711 Woodruff Avenue
CITY Downey TEL. NO. LU 75241
ARCHITECT OR ENGINEER Kyle TEL. NO. CU 35474
ADDRESS 3240 No. Durfee Avenue, El Monte
CONTRACTOR Al-Co Company TEL. NO. HO 33244
ADDRESS 5423 Flemish Lane, L.A. 29

DESCRIPTION OF WORK

NEW (ADD) ALTER REPAIR DEMOLISH
SQ. FT. SIZE 43,200 NO. OF STORIES NO. OF FAMILIES
USE OF STRUCTURE Government products- jet engine sub-assembly (FOUNDATION ONLY)
SIGNATURE OF APPLICANT Al-Co-Co. by [illegible]
ADDRESS 5423 FLEMISH LANE L.A. 29.

$ 20,000.00 VALUATION

P. C. $ 19.50 FEE
$ 39.00 FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE H. C. Dirkhauser Mgr.
ADDRESS 5423 Flemish Lane, Holly.

0	TRACT DWELL. 1 UNIT
1	DWELL. 1 UNIT
2	DUPLEX 1 UNIT
3	APT. ____ UNITS
	COMMERCIAL
5	INDUSTRIAL
6	PUBLIC BLDG.
7	ADDN., ALT., ETC.
8	MISCEL.

INSPECTION RECORD

E. wall footings OK Schultz 9-6-55
Footings OK except pier noted on plan Schultz 9-8-55
Wall steel & walls OK Schultz 9-12-55
Open - Waiting on footings Added as noted Schultz 9-15-55

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	10-3-55	Schultz
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	9/21/56	OK

WM. J. FOX, COUNTY ENGINEER VALIDATION C. N. DIRLAM, CHIEF BLDG. INSPECTOR

ACo 32238 AUG 25 16 19.50 ACo 56798 SEP 1 1 39.00

M. Lewis

C. Merger

BD-3

CITY OF DOWNEY

8425 E. SECOND ST. — TELEPHONE: TOPAZ 1-0361

BUILDING 1

DEPARTMENT OF BUILDING AND SAFETY PERMIT - APPLICATION

EXISTING ADDRESS: 11711 WOODRUFF
LOCALITY: DOWNEY
OWNER: AEROJET GENERAL
MAIL ADDRESS: AEROJET GENERAL CORP.
CITY: DOWNEY TEL. NO. TO 19711
CONTRACTOR: DUDLEY STEEL CORP.
ADDRESS: 10700 SESSLER ST.
CITY: So. GATE TEL. NO. LO. 62188
STATE LIC. NO. 121934 DOWNEY BUS. LICENSE NO. 3988
ARCHITECT OR ENGINEER: JACK E. SPENCER
ADDRESS: 10700 SESSLER ST.
CITY: So. GATE TEL. NO. LO. 62186
STATE LIC. NO. CE7134 DOWNEY BUS. LICENSE NO.
LOT ON FIR ROCK TRACT
LOT SIZE NO. BLDGS. NOW ON LOT
USE OF EXISTING BUILDINGS: DRONE TESTING.
METES AND BOUNDS ATT. YES NO

DESCRIPTION OF WORK

NEW	ADD	ALTER	REPAIR	DEMOLISH	MOVE	OCCUPANCY
	X					

TRAILER | SAFETY | INSPECTION FOR OCCUPANCY AS
LIMITED TIME USE | FROM TO
AREA - SQ. FT.: 1120 NO. STORIES: 1 ROOF COVERING: CORR. G.I.
WALL COVERING INT. EXT.: CORR. G.I.
PROPOSED USE OF STRUCTURE: DRONE TESTING
One wall only. DSC
SIGNATURE OF APPLICANT: Leslie B. Bridges
ADDRESS

VALUATION $ 2,000.00
PLAN CHECK FEE $ —
PERMIT FEE $ 8.50

BUILDING ADDRESS: 11711 Woodruff.
NEAREST CROSS STREET: Firestone

MAP NO.	GROUP	TYPE CONST.	SEWER MAP NO.
3418	G	II	F11

ZONE: M-2 B-1
SPECIAL CONDITIONS

SETBACK	YARD	HWY.	STREET NAME	WIDTH
FRONT P. L.			Woodruff	100
SIDE P. L.				

	DATE
PLANNING DIV. APPROVAL	
ENGINEERING DIV. APPROVAL	
STREET DIV. APPROVAL	
WATER DIV. APPROVAL	
FIRE DEPT. APPROVAL	
POLICE DEPT. APPROVAL	

	DATE FILED	REC'D. BY
SURETY BOND		
CASH DEPOSIT		

SURETY BOND RELEASED DATE

APPROVALS	DATE	INSPECTORS SIGNATURE
FOUNDATION LOCATION FORMS - MATERIALS		
FURNACE - LOCATION GAS VENT - DUCTS		
FRAMING		
LATH OR GYPSUM INTERIOR		
LATH EXTERIOR	Expired 7-2560	
HOUSE NUMBER CORRECT AND POSTED		
RELOCATION WORK COMPLETED	WPF	
TEMPORARY STRUCTURE APPROVED		
TEMPORARY STRUCTURE REMOVED		
BUSINESS LICENSE LIST RETURNED		
FINAL APPROVAL		

I ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL CITY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.
SIGNATURE OF PERMITTEE: Leslie B. Bridges
ADDRESS

28438 NOV 2 59 8.50

PLAN CHECK VALIDATION CK. M.O. CASH — SIGNATURE — PERMIT VALIDATION (CK.) M.O. CASH W.P. [illegible] SIGNATURE

3177

Appendix E

Geotechnical Investigation

GEOTECHNICAL INVESTIGATION
PROPOSED WAREHOUSE

North Side of Stewart and Gray Road, West of
Woodruff Avenue
Downey, California
for
ProLogis

SoCalGeo

SOUTHERN
CALIFORNIA
GEOTECHNICAL
A California Corporation

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

May 19, 2021

ProLogis
17777 Center Court Drive North, Suite 100
Cerritos, California 90703

Attention: Mr. Tunde Ogunwole
Director, Project Management

Project No.: **21G132-1**

Subject: **Geotechnical Investigation**
Proposed Warehouse
North Side of Stuart and Gray Road, West of Woodruff Avenue
Downey, California

Gentlemen:

In accordance with your request, we have performed a geotechnical investigation at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Daniel W. Nielsen, GE 3166
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
DANIEL W. NIELSEN
No. 3166
GEOTECHNICAL
STATE OF CALIFORNIA

Robert G. Trazo, GE 2655
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT TRAZO
No. 2655
GEOTECHNICAL
STATE OF CALIFORNIA

Distribution: (1) Addressee

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 1

2.0 SCOPE OF SERVICES 3

3.0 SITE AND PROJECT DESCRIPTION 4

3.1 Site Conditions 4
3.2 Proposed Development 4

4.0 SUBSURFACE EXPLORATION 6

4.1 Scope of Exploration/Sampling Methods 6
4.2 Geotechnical Conditions 7

5.0 LABORATORY TESTING 9

6.0 CONCLUSIONS AND RECOMMENDATIONS 11

6.1 Seismic Design Considerations 11
6.2 Geotechnical Design Considerations 15
6.3 Site Grading Recommendations 18
6.4 Construction Considerations 21
6.5 Foundation Design and Construction 22
6.6 Floor Slab Design and Construction 24
6.7 Retaining Wall Design and Construction 25
6.8 Pavement Design Parameters 27

7.0 GENERAL COMMENTS 30

8.0 REFERENCES 31

APPENDICES

A Plate 1: Site Location Map
Plate 2: Boring Location Plan
B Boring Logs
C Laboratory Test Results
D Grading Guide Specifications
E Seismic Design Parameters
F CPT Report
G CPT Liquefaction Evaluation

1.0 EXECUTIVE SUMMARY

Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

Geotechnical Design Considerations

- The results of the liquefaction evaluation indicate that some of the on-site soils are susceptible to liquefaction during a major seismic event. Based on the liquefaction evaluation, total dynamic settlements ranging from 2.1± to 2.6± inches could occur at the site during the design seismic event concurrent with historically high groundwater levels.
- Based on the predicted total settlements, the dynamic differential settlements are expected to be on the order of 1.3± inches.
- Undocumented fill soils were encountered at most of the boring locations extending to depths of 2½ to 4½± feet below the existing site grades. The near surface native alluvial soils are variable in composition and loose.
- Remedial grading will be required to remove and replace the undocumented fill soils, and a portion of the underlying compressible native alluvial soils, as compacted structural fill.

Site Preparation

- Demolition of the existing structures and any associated improvements will be necessary to facilitate construction of the new building. Demolition procedures should include all foundations, floor slabs, utilities, the existing pavements, any septic systems, and any other subsurface improvements that will not remain in place for use with the new development. Debris resultant from demolition activities should be disposed of off-site. Alternatively, concrete and asphalt debris may be crushed to a maximum 2-inch particle size and re used in structural fills.
- Initial site preparation should include stripping of the existing grass, trees, and weed growth present in the landscape planter areas. Stripping should also include removal of any tree root masses.
- Remedial grading is recommended to be performed within the proposed building pad area. The excavation should extend to a depth of at least 5 feet below existing grade, and to a depth of at least 4 feet below proposed building pad subgrade elevation. Within the foundation influence zones, the overexcavation should extend to a depth of at least 3 feet below proposed foundation bearing grade. The overexcavation should also extend to a depth sufficient to remove all of the existing artificial fill soils (and any soils disturbed during demolition) from the proposed building pad area.
- After the overexcavation has been completed, the resulting subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting subgrade should then be scarified to a depth of 12 inches, and moisture conditioned or air dried to a moisture content of 0 to 4 percent above optimum. The previously excavated soils may then be replaced as compacted structural fill.
- The new parking area subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Building Foundations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 2,500 lbs/ft^2 maximum allowable soil bearing pressure.
- Reinforcement consisting of at least six (6) No. 5 rebars (3 top and 3 bottom) in strip footings due to the presence of potentially liquefiable soils. Additional reinforcement may be necessary for structural considerations.

Building Floor Slabs

- Conventional Slabs-on-Grade, 6 inches thick.
- Modulus of Subgrade Reaction: k = 125 psi/in
- Reinforcement consisting of No. 3 rebars at 18 inches on center in both directions due to the presence of liquefiable soils. The actual floor slab reinforcement should be determined by the structural engineer, based on the imposed slab loading.

Pavements

ASPHALT PAVEMENTS (R = 40)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	4	6	7	8	10
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 40)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 21P145, dated February 4, 2021. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slab, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. Based on the location of this site, this investigation also included a site-specific liquefaction evaluation. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site consists of several parcels located on the north side of Stewart and Gray Road, approximately 160 feet west of Woodruff Avenue in Downey, California. The parcels are referenced by the street addresses of 9300, 9350 and 9400 Hall Road, and 9301 and 9399 Stewart and Gray Road. The site is bounded to the north and northeast by Hall Road, to the east and west by commercial/industrial developments, and to the south by Stewart and Gray Road. The general location of the site is illustrated on the Site Location Map, included as Plate 1 of this report.

The overall site is an irregular shaped property, approximately 28.97 acres in size. The site is presently developed with several separate commercial/industrial businesses. The existing facilities include four (4) buildings ranging in size from 7,000 to 235,000± ft² in size. The two largest buildings are located in the eastern and western portions of the property. The two smaller buildings are located in the central portion of the property. The buildings are surrounded by asphaltic concrete pavement for automobile and truck traffic, with areas of Portland cement concrete pavement in some of the loading dock areas. The asphaltic concrete pavements are in poor condition with moderate to severe cracking throughout. Limited areas of landscaped planters with trees are present in the northern portion of the site.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth and visual observations made at the time of the subsurface investigation, the site slopes gently to the south at a gradient of less than 1± percent.

3.2 Proposed Development

A conceptual site plan was provided to our office by the client. Based on this plan, the site will be developed with one (1) new commercial/industrial building, 512,160± ft^2 in size, located in the central area of the site. Dock-high doors will be constructed along a portion of the east and west building walls. The building is expected to be surrounded by asphaltic concrete pavements in the parking and drive areas, Portland cement concrete pavements in the truck court areas, and limited areas of concrete flatwork and landscape planters throughout.

Detailed structural information has not been provided. It is assumed that the new building will be a single-story structure of tilt-up concrete construction, supported on a conventional shallow foundation system with a concrete slab-on-grade floor. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 4 to 7 kips per linear foot, respectively.

No significant amounts of below grade construction, such as basements or crawl spaces, are expected to be included in the proposed development. Based on the assumed topography, cuts and fills of up to 1 to 2± feet are expected to be necessary to achieve the proposed site grades.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of eight (8) borings advanced to depths of 10 to 50± feet below the existing site grades. Two of these borings were advanced to a depth of 50± feet as a part of the liquefaction evaluation. In addition to the borings, four (4) Cone Penetration Test (CPT) soundings were advanced to depths of 50± feet at the site as part of the liquefaction evaluation. All of the borings and CPT soundings were logged during drilling by a member of our staff.

Hollow Stem Auger Borings

The borings were advanced with hollow-stem augers, by a conventional truck-mounted drilling rig. Representative bulk and relatively undisturbed soil samples were taken during drilling. Relatively undisturbed soil samples were taken with a split barrel "California Sampler" containing a series of one inch long, 2.416± inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. Samples were also taken using a 1.4± inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory.

Cone Penetration Test (CPT) Soundings

The CPT soundings were performed by Kehoe Testing and Engineering (KTE) under the supervision of an SCG engineer. The cone system used for this project was manufactured by Vertek. The CPT soundings were performed in general accordance with ASTM standards (D-5778). The cone penetrometers were pushed using 30-ton CPT rig. The cones used during the program recorded the cone resistance, sleeve friction, and dynamic core pressure at 2.5-centimeter depth intervals. Both of the CPT soundings were advanced to depths of 100± feet. A more complete description of the CPT program as well as the results of the data interpretation are provided in the report prepared by KTE, enclosed in Appendix F of this report. The CPT soundings do not result in any recovered soil samples. However, correlations have been developed that utilize the cone resistance and the sleeve friction to estimate the soil type that is present at each 2.5-centimeter interval in the subsurface profile. These soil classifications are presented graphically in the CPT report, dated May 4, 2021, enclosed in Appendix F. CPT Data obtained during the geotechnical feasibility study is also presented in a separate report prepared by KTE, dated March 20, 2019, enclosed in Appendix F of this report.

The data generated by the cone penetrometer equipment has been reduced using CPeT-IT, V2.0, published by Geologismiki Geotechnical Software. The CPeT-IT program output as well as more

details regarding the interpretation procedure are presented a report prepared by KTE, which is provided in Appendix F of this report.

General

Based on information provided by the client and the project environmental consultant, we understand that the subject site is an environmentally sensitive area. Therefore, the cuttings generated by the drilling and sampling activities were contained within 55-gallon drums and transported to the three areas of the site for holding. In addition, the boreholes were backfilled with bentonite grout.

The approximate locations of the borings and CPT soundings are indicated on the Boring and CPT Location Plan, included as Plate 2 in Appendix A of this report. The Boring Logs, which illustrate the conditions encountered at the boring locations, as well as the results of some of the laboratory testing, are included in Appendix B. The results of the CPT soundings are presented in two reports prepared by KTE, included in Appendix F of this report.

4.2 Geotechnical Conditions

Pavements

Asphaltic concrete pavements were encountered at the ground surface of all boring locations, except Boring No. B-5. The pavement sections generally consist of 3 to 8± inches of asphalt, underlain by 2 to 6± inches of aggregate base. Portland cement concrete, 7± inches thick, was encountered at the ground surface of Boring No. B-5.

Boring No. B-8 encountered multiple layers of asphaltic concrete separated by layers of soil or aggregate base. Asphaltic concrete was encountered at the ground surface, approximately 4± inches thick, directly underlain by 2± inches of soil. Beneath the soil, another 2± inch-thick layer of asphalt was encountered, underlain by 3± inches of aggregate base. Beneath the base layer, a third layer of asphaltic concrete was present, 3±-inches-thick.

Artificial Fill

Artificial fill soils were encountered beneath the pavements at all of the boring locations, except Boring No. B-6. The fill soils extend to depths of 2½ to 4½± feet below ground surface, at the boring locations where fill soils were encountered. The fill soils generally consist of loose to medium dense silty fine sands and fine sands. The fill soils possess a disturbed and mottled appearance, resulting in their classification as artificial fill.

Alluvium

Native alluvium was encountered beneath the pavements at Boring No. B-6 and beneath the fill soils at all of the other boring locations, extending to at least the maximum depth explored of 50± feet below ground surface. The alluvial soils encountered in the upper 8 to 17± feet generally consist of loose silty fine sands with occasional soft to stiff fine sandy clay layers and stiff to very

stiff clayey silt layers. At greater depths, the native alluvial soils predominately consist of loose to medium dense silty sands with interbedded layers of medium dense fine sands and sandy silts. Medium stiff to very stiff silty clay and clayey silt layers were also encountered at Boring Nos. B-4, between depths of 37± and 47± feet. Most of the alluvial soils possess trace to little iron oxide staining and calcareous veining and nodules were observed in some of the samples.

Groundwater

Free water was not encountered during drilling of any of the borings. Based on the lack of any water within the borings, and the moisture contents of the recovered soil samples, the static groundwater table is considered to have existed at a depth in excess of 50± feet at the time of the subsurface exploration.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. The primary reference used to determine the historic groundwater depths in this area is the California Geological Survey (CGS) Seismic Hazard Zone Report (037) for the Whittier 7.5-Minute Quadrangle, which indicates that the historic high groundwater level for the site is about 7± feet below the ground surface.

Recent water level data was obtained from the California State Water Resources Control Board, GeoTracker, website, https://geotracker.waterboards.ca.gov/. Several monitoring wells on record are located within the subject site. Water level readings within these monitoring wells indicate a high groundwater level of 81± feet below the ground surface in December 2020.

5.0 LABORATORY TESTING

The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths.

Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. Field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Boring Logs and are periodically referenced throughout this report.

Dry Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Consolidation

Selected soil samples have been tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-8 in Appendix C of this report.

Maximum Dry Density and Optimum Moisture Content

Two (2) representative bulk samples were tested for their maximum dry density and optimum moisture content. The results were obtained using the Modified Proctor procedure, per ASTM D-1557 and is presented on Plates C-9 and C-10 in Appendix C of this report. This test is generally used for comparison with the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

Grain Size Analysis

Limited grain size analyses have been performed on several selected samples, in accordance with ASTM D-1140. These samples were washed over a #200 sieve to determine the percentage of

fine-grained material in each sample, which is defined as the material which passes the #200 sieve. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of these laboratory tests are shown on the attached boring logs.

Expansion Index

The expansion potential of the on-site soils was determined in general accordance with the California Building Code (CBC). The testing apparatus is designed to accept a 4-inch diameter, 1-inch high, remolded sample. The sample is initially remolded to 50± 1 percent saturation and then loaded with a surcharge equivalent to 144 pounds per square foot. The sample is then inundated with water, and allowed to swell against the surcharge. The resultant swell or consolidation is recorded after a 24-hour period. The results of the EI testing are as follows:

Sample Identification	Expansion Index	Expansive Potential
B-1 @ 0 to 5 feet	4	Very Low

Soluble Sulfates

Representative samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils. The results of the soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

Sample Identification	Soluble Sulfates (%)	ACI Classification
B-1 @ 0 to 5 feet	0.004	Not Applicable (S0)
B-7 @ 0 to 5 feet	0.005	Not Applicable (S0)

Corrosivity Testing

Representative bulk samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of electrical resistivity, pH, and chloride concentrations. The resistivity of the soils is a measure of their potential to attack buried metal improvements such as utility lines. The results of the resistivity and pH testing are presented below:

Sample Identification	Resistivity (ohm-cm)	pH	Chlorides (mg/kg)	Nitrates (mg/kg)
B-1 @ 0 to 5 feet	5,200	7.8	8.7	19
B-7 @ 0 to 5 feet	4,800	7.6	7.1	12

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our review, field exploration, laboratory testing and geotechnical analysis, the proposed development is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations.

The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record. The recommendations are provided with the assumption that an adequate program of client consultation, construction monitoring, and testing will be performed during the final design and construction phases to verify compliance with these recommendations. Maintaining Southern California Geotechnical, Inc., (SCG) as the geotechnical consultant from the beginning to the end of the project will provide continuity of services. The geotechnical engineering firm providing testing and observation services shall assume the responsibility of Geotechnical Engineer of Record.

The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site-specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structure should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, SCG did not identify any evidence of faulting during the geotechnical investigation. Therefore, the possibility of significant fault rupture on the site is considered to be low.

Seismic Design Parameters

The California Building Code (CBC) provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented

below are based on the soil profile and the proximity of known faults with respect to the subject site.

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2019 edition of the California Building Code (CBC), which was adopted on January 1, 2020.

The 2019 CBC Seismic Design Parameters have been generated using the SEAOC/OSHPD Seismic Design Maps Tool, a web-based software application available at the website www.seismicmaps.org. This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-16, upon which the 2019 CBC is based. The application utilizes a database of risk-targeted maximum considered earthquake (MCE_R) site accelerations at 0.01-degree intervals for each of the code documents. The tables below were created using data obtained from the application. The output generated from this program is included as Plate E-1 in Appendix E of this report.

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." **Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.4.8 applies to the proposed building proposed for this site. However, the structural engineer should verify that this exception is applicable to the proposed building.** Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	1.680
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.603
Site Class	---	D*
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.680
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.025
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.120
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.683

*The 2019 CBC requires that Site Class F be assigned to any profile containing soils vulnerable to potential failure or collapse under seismic loading, such as liquefiable soils. For Site Class F, the site *coefficients* are to be determined in accordance with Section 11.4.7 of ASCE 7-16. However, Section 20.3.1 of ASCE 7-16 indicates that for sites with structures having a fundamental period of vibration equal to or less than 0.5 seconds, the site coefficient factors (F_a and F_v) may be determined using the standard procedures. The seismic design parameters tabulated above were calculated using the site coefficient factors for Site Class D, assuming that the fundamental period of the structure is less than 0.5 seconds. However, the results of the liquefaction evaluation indicate that the

subject site is underlain by potentially liquefiable soils. Therefore, if the proposed building has a fundamental period greater than 0.5 seconds, a site-specific seismic hazard analysis will be required and additional subsurface exploration will be necessary.

It should be noted that the site coefficient F_v and the parameters S_{M1} and S_{D1} were not included in the SEAOC/OSHPD Seismic Design Maps Tool output for the 2019 CBC. We calculated these parameters-based on Table 1613.2.3(2) in Section 16.4.4 of the 2019 CBC using the value of S_1 obtained from the Seismic Design Maps Tool, assuming that a site-specific ground motion hazards analysis is not required for the proposed building at this site.

Ground Motion Parameters

For the purposes of the liquefaction analysis performed for this study, we utilized a site acceleration consistent with maximum considered earthquake ground motions, as required by the 2019 CBC. The peak ground acceleration (PGA) was determined in accordance with Section 11.8.3 of ASCE 7-16. The parameter PGA_M is the maximum considered earthquake geometric mean (MCE_G) PGA, multiplied by the appropriate site coefficient from Table 11.8-1 of ASCE 7-16. The web-based software application SEAOC/OSHPD Seismic Design Maps Tool (described in the previous section) was used to determine PGA_M, which is 0.791g. A portion of the program output is included as Plate E-1 of this report. An associated earthquake magnitude was obtained from the USGS Unified Hazard Tool, Interactive Deaggregation application available on the USGS website. The deaggregated mean magnitude is 6.88, based on the peak ground acceleration and soil classification D.

Liquefaction

Research of the Seismic Hazards Zones Map for the Whittier Quadrangle, published by the California Geological Survey (CGS) indicates that the site subject site is located within a liquefaction hazard zone. Based on this mapping, and the subsurface conditions encountered at the borings, the scope of this investigation included a detailed liquefaction evaluation in order to determine the site-specific liquefaction potential.

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the pore-water pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and plasticity characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean (d_{50}) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Non-sensitive clayey (cohesive) soils which possess a plasticity index of at least 18 (Bray and Sancio, 2006) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

The liquefaction analysis was conducted in accordance with the requirements of Special Publication 117A (CDMG, 2008), and currently accepted practice (SCEC, 1997). The liquefaction potential of the subject site was evaluated using the empirical method developed by Boulanger and Idriss (Boulanger and Idriss, 2008, 2014). This method predicts the earthquake-induced liquefaction potential of the site based on a given design earthquake magnitude and peak ground acceleration at the subject site. This procedure essentially compares the cyclic resistance ratio

(CRR) [the cyclic stress ratio required to induce liquefaction for a cohesionless soil stratum at a given depth] with the earthquake-induced cyclic stress ratio (CSR) at that depth from a specified design earthquake (defined by a peak ground surface acceleration and an associated earthquake moment magnitude). CRR is determined as a function of the corrected CPT tip stress, q_{c1N-cs}. The factor of safety against liquefaction is defined as CRR/CSR. Based on Special Publication 117A, a factor of safety of at least 1.3 is required in order to demonstrate that a given soil stratum is non-liquefiable. Additionally, in accordance with Special Publication 117A, clayey soils which do not meet the criteria for liquefiable soils defined by Bray and Sancio (2006), loose soils with a plasticity index (PI) less than 12 and moisture content greater than 85 percent of the liquid limit, are considered to be insusceptible to liquefaction. Non-sensitive soils with a PI greater than 18 are also considered non-liquefiable.

As part of the liquefaction evaluation, CPT-1 through CPT-4, inclusive, were extended to depths of 50± feet. Boring Nos. B-1 and B-4 were also drilled to a depth of 50± feet in order to provide physical samples for further analysis and support of the CPT data. The liquefaction potential for the on-site soils was evaluated the computer program CLiq V3.0.3.2, which was developed by Geologismiki, copyright 2007. The analysis is based on the method derived by Boulanger and Idriss, 2014. The liquefaction potential of the site was analyzed utilizing a PGA_M of 0.791g for a magnitude 6.88 seismic event. The historic high groundwater table of 7± feet was used to model the groundwater conditions for the site during the design-level earthquake. The potential settlements that could occur as a result of liquefaction for each of the potentially liquefiable layers was calculated. A copy of the program output is presented in Appendix G of this report. It should be noted that the mapped historic high groundwater level used in the liquefaction evaluation is very conservative with respect to recent groundwater data for the site which is readily available at www.geotracker.ca.gov (discussed in Section 4.2 of this report).

Conclusions and Recommendations

The results of the liquefaction analysis have identified potentially liquefiable soils at all four (4) of the CPT soundings performed at the site. Soils which are located above the historic groundwater table or possess factors of safety of at least 1.3 are considered non-liquefiable. Several clayey strata encountered between depths of 7 and 50± feet are considered to be non-liquefiable due to their cohesive characteristics, as interpreted by the CPT, and based on the results of Atterberg Limits testing. Settlement analyses were performed for each of the potentially liquefiable strata. The total dynamic settlement for each of the CPT locations, based on the results of the dynamic settlement analyses are presented below:

- CPT-1: 2.14± inches
- CPT-2: 2.24± inches
- CPT-3: 2.28± inches
- CPT-4: 2.59± inches

In accordance with Special Publication 117A, the associated differential settlements are considered to be about ½ of the total settlement. Therefore, differential settlements of up to 1.3± inches are expected to occur during the design-level seismic event. The estimated differential settlement could be assumed to occur across a distance of 50 feet, indicating a maximum angular distortion of about 0.002± inches per inch.

Based on our understanding of the proposed development, it is considered feasible to support the proposed structure on shallow foundations. Such a foundation system can be designed to resist the effects of the anticipated differential settlements, to the extent that the structure would not catastrophically fail. Designing the proposed structure to remain completely undamaged during a major seismic event is not considered to be economically feasible. Based on this understanding, the use of a shallow foundation system is considered to be the most economical means of supporting the proposed structure.

In order to support the proposed building on shallow foundations (such as spread footings) the structural engineer should verify that the structure would not catastrophically fail due to the predicted dynamic differential settlements. Any utility connections to the structure should be designed to withstand the estimated differential settlements. It should also be noted that minor to moderate repairs, including re-leveling, restoration of utility connections, repair of damaged drywall and stucco, etc., would likely be required after occurrence of the liquefaction-induced settlements.

The use of a shallow foundation system, as described in this report, is typical for buildings of the type planned for this site, where they are underlain by the extent of liquefiable soils encountered at this site. The post-liquefaction damage that could occur within the building proposed for this site will also be typical of similar buildings in the vicinity of this project. However, if the owner determines that this level of potential damage is not acceptable, other geotechnical and structural options are available, including the use of ground improvement, deep foundations, or a mat foundation.

6.2 Geotechnical Design Considerations

General

Artificial fill soils were encountered at most of the boring locations, extending to depths of 2½ to 4½± feet below the existing site grades. The fill soils generally consist of loose sands and silty sands. Based on their relatively low strengths, disturbed appearance, and the lack of any documentation regarding the placement or compaction of the fill soils, the existing fill materials are considered to represent undocumented fill soils.

The fill soils are underlain by native alluvium consisting of loose sands and silty sands with occasional sandy clay and sandy silt layers. The results of consolidation testing on samples of on-site soils from the upper 10± feet indicate that these soils are subject to minor consolidation settlement when loaded. Based on the presence of undocumented fill soils and loose, low strength native alluvium within the foundation influence zones of the proposed building, the near-surface soils, in their present state are not considered suitable to support the foundations and floor slabs of the proposed building. Remedial grading is considered warranted in order to remove the artificial fill soils in their entirety and a portion of the near surface alluvial soils in order to replace these materials as compacted structural fill.

As discussed in the previous section of this report, potentially liquefiable soils were identified at this site. The presence of the recommended layer of newly placed compacted structural fill above these liquefiable soils will help to reduce any surface manifestations that could occur as a result of liquefaction. The foundation design recommendations presented in the subsequent sections of this report also contain recommendations to provide additional rigidity in order to reduce the potential effects of differential settlement that could occur as a result of liquefaction.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near surface alluvium and replace these materials as compacted structural fill. The native soils that will remain in place below the recommended depth of overexcavation will not be subject to significant load increases from the foundations of the new building. Provided that the recommended remedial grading is completed, the post-construction static settlement of the proposed building is expected to be within tolerable limits.

Soluble Sulfates

The results of the soluble sulfate testing indicate that the selected samples of the on-site soils contain concentrations of soluble sulfates that correspond to Class S0 with respect to the American Concrete Institute (ACI) Publication 318-14 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building area.

Expansion

The near-surface soils at this site generally consist of silty sands, fine sands, and occasional sandy silts. The results of expansion index testing indicate that the tested soils possess a very low expansive potential (EI = 4). Therefore, no design considerations related to expansive soils are considered warranted for this site. It is recommended that expansion index testing be conducted at the completion of rough grading to verify the expansion potential of the as-graded building pad.

Corrosion Potential

The results of the electrical resistivity and pH testing indicate that the tested samples of the near-surface soils have resistivity values of 4,800 and 5,200 ohm-cm, and pH values of 7.6 and 7.8. These test results have been evaluated in accordance with guidelines published by the Ductile Iron Pipe Research Association (DIPRA). The DIPRA guidelines consist of a point system by which characteristics of the soils are used to quantify the corrosivity characteristics of the site. Resistivity and pH are two of the five factors that enter into the evaluation procedure. Redox potential, relative soil moisture content and sulfides are also included. Although sulfide testing was not part of the scope of services for this project, we have evaluated the corrosivity characteristics of the on-site soils using resistivity, pH and moisture content. Based on these factors, and utilizing the DIPRA procedure the on-site soils are not considered to be corrosive to ductile iron pipe. It should

be noted that SCG does not practice in the field of corrosion engineering, and therefore, the client may also wish to contact a corrosion engineer to provide a more thorough evaluation.

Relatively low concentrations of chlorides, 7.1 and 8.7 mg/kg, were detected in the samples submitted for corrosivity testing. In general, soils possessing chloride concentrations in excess of 500 parts per million (ppm) are considered to be corrosive with respect to steel reinforcement within reinforced concrete. Based on the relatively low chloride concentration in the tested sample, the site is considered to have a C1 chloride exposure in accordance with the American Concrete Institute (ACI) Publication 318 Building Code Requirements for Structural Concrete and Commentary. Therefore, a specialized concrete mix design for protection against chloride exposure is not considered warranted.

Nitrates present in soil can be corrosive to copper tubing at concentrations greater than 50 mg/kg. The tested samples possess nitrate concentrations of 12 and 19 mg/kg. Based on these test results, the on-site soils are not considered to be corrosive to copper pipe with respect to their nitrate concentrations.

Shrinkage/Subsidence

Removal and recompaction of the near surface fill soils and alluvium is estimated to result in an average shrinkage of 7 to 17 percent. Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.10± feet. This estimate may be used for grading in areas that are underlain by native alluvial soils.

These estimates are based on previous experience and the subsurface conditions encountered at the boring locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

The potential shrinkage estimate is based on dry density testing performed on small-diameter samples taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test-pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

The grading recommendations presented below are based on the subsurface conditions encountered at the boring locations and our understanding of the proposed development. We recommend that all grading activities be completed in accordance with the Grading Guide Specifications included as Appendix D of this report, unless superseded by site-specific recommendations presented below.

Site Stripping and Demolition

It is anticipated that the existing structures and associated improvements will be demolished. Any existing subsurface improvements that will not remain in place for use with the new development should be removed in their entirety. This should include all foundations, slabs, septic systems, utilities, and any other subsurface improvements associated with the existing structure and associated improvements. Debris resultant from demolition should be disposed of offsite in accordance with any applicable regulations. Alternatively, concrete and asphalt debris may be crushed to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and processed into CMB, if desired.

Initial site stripping should also include removal of any surficial vegetation from the site. At the time of drilling, some trees were present in isolated landscape planter areas located in the northern portion of the site. This should include any weeds, grasses, shrubs, and trees. Root masses associated with the trees should be removed in their entirety, and the resultant excavations should be backfilled with compacted structural fill soils. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

Treatment of Existing Soils: Building Pad

Remedial grading should be performed within the proposed building area to remove all of the existing undocumented fill materials, which extend to depths of 2½ to 4½± feet at the boring locations. In order to provide more uniform support characteristics for the proposed structure and to remove a portion of the compressible soils from the foundation influence zones, the overexcavation should extend to a depth of at least 5 feet below the existing site grades and to a depth of at least 4 feet below the proposed building pad grades. Within the influence zones of the new foundations, the overexcavation should extend to a depth of at least 3 feet below proposed foundation bearing grade.

The overexcavation areas should extend at least 5 feet beyond the building perimeters and foundations, and to an extent equal to the depth of fill below the new foundations. If the proposed structure incorporates any exterior columns (such as for a canopy or overhang) the overexcavation should also encompass these areas.

Following completion of the overexcavation, the subgrade soils within the building area should be evaluated by the geotechnical engineer to verify their suitability to serve as the structural fill subgrade, as well as to support the foundation loads of the new structure. This evaluation should include proofrolling and probing to identify any soft, loose or otherwise unstable soils that must

be removed. Some localized areas of deeper excavation may be required if additional fill materials or loose, porous, or low-density native soils are encountered at the base of the overexcavation.

Based on the conditions encountered at the exploratory boring locations, very moist soils will be encountered at or near the base of the recommended overexcavation in some areas. Stabilization of the exposed overexcavation subgrade soils may be necessary. Scarification and air drying of these materials may be sufficient to obtain a stable subgrade, but it is expected that an extended period of drying may be required. If highly unstable soils are identified, and/or if the construction schedule does not allow for delays associated with drying, mechanical stabilization, usually consisting of coarse crushed stone or geotextile, will likely be necessary. In this event, the geotechnical engineer should be contacted for supplementary recommendations. Typically, an unstable subgrade can be stabilized using a suitable geotextile fabric, such as Mirafi RS580I, and/or a 12 to 18-inch thick layer of coarse (2 to 4-inch particle size) crushed stone. Crushed asphalt and concrete debris resultant from demolition may be used as a subgrade stabilization material. Other options, including lime or cement treatment are also available. Typically, an unstable subgrade may be stabilized by treating the upper 12 inches of subgrade material with cement to a concentration of 5 percent (by dry weight of soil).

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches, thoroughly moisture conditioned, and recompacted. Overexcavation bottoms should be thoroughly moisture conditioned to achieve a moisture content of 0 to 4 percent above the optimum moisture content. The previously excavated soils may then be replaced as compacted structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of proposed retaining and non-retaining site walls should be overexcavated to a depth of at least 3 feet below foundation bearing grade and replaced as compacted structural fill as discussed above for the proposed building pad. Any undocumented fill soils within the foundation areas should be removed in their entirety. The overexcavation areas should extend horizontally beyond the foundation perimeters to a distance equal to the depth of fill below the new foundations. These overexcavation recommendations also apply to any erection pads for tilt-up concrete walls, since these pads are part of the foundation system. The overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning, and recompacting the upper 12 inches of exposed subgrade soils, as discussed for the building area. The previously excavated soils may then be replaced as compacted structural fill. If the recommended lateral and/or vertical extents of overexcavation are not achievable for the retaining walls or site walls, as may occur along the property lines, then additional recommendations including, but not limited to reduced design bearing pressures may be required. Additionally, specialized grading techniques such as slot cutting or shoring may be required in order to facilitate construction.

Treatment of Existing Soils: Flatwork, Parking and Drive Areas

Based on economic considerations, overexcavation of the existing undocumented fill soils and the lower strength, compressible, native alluvium in the new parking and flatwork areas is not considered warranted, with the exception of areas where lower strength or unstable soils are identified by the geotechnical engineer during grading.

Subgrade preparation in the new parking and flatwork areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 0 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength alluvial soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed flatwork, parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed parking and flatwork areas. The grading recommendations presented above do not mitigate the extent of potentially compressible and low expansive soils and undocumented fill soils in the parking, drive and flatwork areas. As such, some movement settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer. **Drying of some of the on-site soils may be necessary to achieve a moisture content suitable for recompaction.** Additionally, highly organic material should be stripped from the site.
- All grading and fill placement activities should be completed in accordance with the requirements of the 2019 CBC and the grading code of the city of Downey.
- All new structural fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Imported Structural Fill

All imported structural fill should consist of very low expansive (EI < 50), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. As an alternative, a clean sand (minimum Sand Equivalent of 30) may be placed within trenches and compacted in place (jetting or flooding is not recommended). It is recommended that materials in excess of 3 inches in size not be used for utility trench backfill. Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by city of Downey. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

6.4 Construction Considerations

Excavation Considerations

The near surface soils generally consist of sands, silty sands, and sandy silts. These materials will likely be subject to caving within shallow excavations. Where caving occurs within shallow excavations, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2h:1v. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

Moisture Sensitive Subgrade Soils

Most of the near surface soils possess appreciable silt content and may become unstable if exposed to significant moisture infiltration or disturbance by construction traffic. In addition, based on their granular content, some of the on-site soils will also be susceptible to erosion. The site should, therefore, be graded to prevent ponding of surface water and to prevent water from running into excavations.

As noted previously, some of the soils that are expected to be encountered at or slightly below the anticipated overexcavation subgrade elevation possess elevated moisture contents. Based on their silt content, these materials may be subject to significant subgrade instability, especially if exposed to rubber-tire grading equipment. **Therefore, it may be necessary to use track-mounted grading equipment on unstable overexcavation subgrade areas to reduce the potential for "pumping" and/or creating further subgrade instability.**

If the construction schedule dictates that site grading will occur during a period of wet weather, allowances should be made for costs and delays associated with drying the on-site soils or import

of a drier, less moisture sensitive fill material. Grading during wet or cool weather may also increase the depth of overexcavation in the pad area.

Groundwater

Ground water was not encountered during the drilling of any of the borings, which were advanced to depths of 10 to 50± feet below the ground surface. Groundwater is therefore not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pad will be underlain by structural fill soils used to replace the undocumented fill soils and near-surface alluvial soils. These new structural fill soils are expected to extend to depths of at least 3 feet below proposed foundation bearing grades, underlain by 1± foot of additional soil that has been densified in place. Based on this subsurface profile, and based on the design considerations presented in Section 6.1 of this report, the proposed structure may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 lbs/ft^2.
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Six (6) No. 5 rebars (3 top and 3 bottom) in strip footings, due to the presence of potentially liquefiable soils.
- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressures presented above may be increased by 1/3 when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on standard geotechnical practice. Additional rigidity may be necessary for structural considerations, or to resist the effects of the liquefaction-induced differential settlements, as discussed in Section 6.1. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

The foundation subgrade soils should be evaluated at the time of overexcavation, as discussed in Section 6.3 of this report. It is further recommended that the foundation subgrade soils be evaluated by the geotechnical engineer immediately prior to steel or concrete placement. Soils suitable for direct foundation support should consist of newly placed structural fill, compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Any unsuitable materials should be removed to a depth of suitable bearing compacted structural fill, with the resulting excavations backfilled with compacted fill soils. As an alternative, lean concrete slurry (500 to 1,500 psi) may be used to backfill such isolated overexcavations.

The foundation subgrade soils should also be properly moisture conditioned to 0 to 4 percent above the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential static settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be less than 1.0 and 0.5 inches, respectively. Differential movements are expected to occur over a 30-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch. These settlements are in addition to the liquefaction-induced settlements previously discussed in Section 6.1 of this report. However, the likelihood of these two settlements combining is considered remote. The static settlements are expected to occur in a relatively short period of time after the building loads being applied to the foundations, during and immediately subsequent to construction. It should be noted that the projected potential dynamic settlement is related to a major seismic event with a return period of about 2,475 years.

Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 275 lbs/ft^3
- Friction Coefficient: 0.29

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill. The maximum allowable passive pressure is 2500 lbs/ft^2.

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slabs should be prepared in accordance with the recommendations contained in the ***Site Grading Recommendations*** section of this report. Based on the anticipated grading which will occur at this site, and based on the design considerations presented in Section 6.1 of this report, the floor of the proposed structure may be constructed as a conventional slab-on-grade supported on newly placed structural fill, extending to a depth of at least 4 feet below proposed finished pad grade. Based on geotechnical considerations, the floor slab may be designed as follows:

- Minimum slab thickness: 6 inches, due to the liquefaction potential of the on-site soils.

- Modulus of Subgrade Reaction: k = 125 psi/in.

- Minimum slab reinforcement: No. 3 bars at 18 inches on-center, in both directions, due to the presence of potentially liquefiable soils at the site. The actual floor slab reinforcement should be determined by the structural engineer, based on the imposed loading, and the liquefaction-induced settlements.

- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire slab area where such moisture sensitive floor coverings are expected. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.

- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slabs should be completed by the structural engineer to verify adequate thickness and reinforcement. The steel reinforcement recommendations presented above are based on standard geotechnical practice, given the magnitude of predicted liquefaction-induced settlements, and the structure type proposed for the site. Additional rigidity may be

necessary for structural considerations, or to resist the effects of the liquefaction-induced differential settlements discussed in Section 6.1.

6.7 Retaining Wall Design and Construction

Although not indicated on the site plan, some small (less than 6 feet in height) retaining walls may be required to facilitate the new site grades and in the dock-high area of the building. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. We have provided parameters assuming the use of on-site soils for retaining wall backfill. The near-surface soils generally consist of sands, silty sands, and sandy silts. Based on their classification, silty sand and sandy silt materials are expected to possess a friction angle of at least 29 degrees when compacted to at least 90 percent of the ASTM D-1557 maximum dry density.

If desired, SCG could provide design parameters for an alternative select backfill material behind the retaining walls. The use of select backfill material could result in lower lateral earth pressures. In order to use the design parameters for the imported select fill, this material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal. If select backfill material behind the retaining wall is desired, SCG should be contacted for supplementary recommendations.

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type
		On-site Silty Sands and Sandy Silts
Internal Friction Angle (ϕ)		29°
Unit Weight		125 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	43 lbs/ft^3
	Active Condition (2h:1v backfill)	73 lbs/ft^3
	At-Rest Condition (level backfill)	65 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.29 and an equivalent passive pressure of 275 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to

deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

Seismic Lateral Earth Pressures

In addition to the lateral earth pressures presented in the previous section, retaining walls which are more than 6 feet in height should be designed for a seismic lateral earth pressure, in accordance with the 2019 CBC. Based on the current site plan, it is not expected that any walls in excess of 6 feet in height will be required for this project. If any such walls are proposed, our office should be contacted for supplementary design recommendations.

Retaining Wall Foundation Design

The retaining wall foundations should be supported within newly placed compacted structural fill, extending to a depth of at least 3 feet below the proposed bearing grade. Foundations to support new retaining walls should be designed in accordance with the general Foundation Design Parameters presented in a previous section of this report.

Backfill Material

On-site sands, silty sands and sandy silts may be used to backfill the retaining walls. All backfill material placed within 3 feet of the back-wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

It is recommended that a minimum 1-foot thick layer of free-draining granular material (less than 5 percent passing the No. 200 sieve) be placed against the face of the retaining walls. This material should extend from the top of the retaining wall footing to within 1 foot of the ground surface on the back side of the retaining wall. This material should be approved by the geotechnical engineer. In lieu of the 1-foot thick layer of free-draining material, a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls, may be used. If the layer of free-draining material is not covered by an impermeable surface, such as a structure or pavement, a 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils. The layer of free draining granular material should be separated from the backfill soils by a suitable geotextile, approved by the geotechnical engineer.

All retaining wall backfill should be placed and compacted under engineering-controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

Weep holes or a footing drain will not be required for building stem walls.

6.8 Pavement Design Parameters

Site preparation in the pavement areas should be completed as previously recommended in the ***Site Grading Recommendations*** section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The near-surface soils consist of various soil materials including fine sands, silty sands, and fine sandy silts. These soils are considered to possess good pavement support characteristics with estimated R-values ranging from 40 to 50. The subsequent pavement design is therefore based upon an assumed R-value of 40. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering-controlled conditions. It is recommended that R-value testing be performed after completion of rough grading. Depending upon the results of the R-value testing, it may be feasible to use thinner pavement sections in some areas of the site.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that

the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20-year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.

ASPHALT PAVEMENTS (R = 40)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	4	6	7	8	10
Compacted Subgrade	12	12	12	12	12

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" Standard Specifications for Public Works Construction.

Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 40)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

The concrete should have a 28-day compressive strength of at least 3,000 psi. Any reinforcement within the PCC pavements should be determined by the project structural engineer. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.

7.0 GENERAL COMMENTS

This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

8.0 REFERENCES

California Division of Mines and Geology (CDMG), "Guidelines for Evaluating and Mitigating Seismic Hazards in California," State of California, Department of Conservation, Division of Mines and Geology, Special Publication 117A, 2008.

Idriss, I. M. and Boulanger, R.W., "Soil Liquefaction During Earthquakes", Earthquake Engineering Research Institute, 2008.

National Research Council (NRC), "Liquefaction of Soils During Earthquakes," Committee on Earthquake Engineering, National Research Council, Washington D. C., Report No. CETS-EE-001, 1985.

Seed, H. B., and Idriss, I. M., "Simplified Procedure for Evaluating Soil Liquefaction Potential using field Performance Data," Journal of the Soil Mechanics and Foundations Division, American Society of Civil Engineers, September 1971, pp. 1249-1273.

Sadigh, K., Chang, C. –Y., Egan, J. A., Makdisi. F., Youngs, R. R., "*Attenuation Relationships for Shallow Crustal Earthquakes Based on California Strong Motion Data"*, Seismological Research Letters, Seismological Society of America, Volume 68, Number 1, January/ February 1997, pp. 180-189.

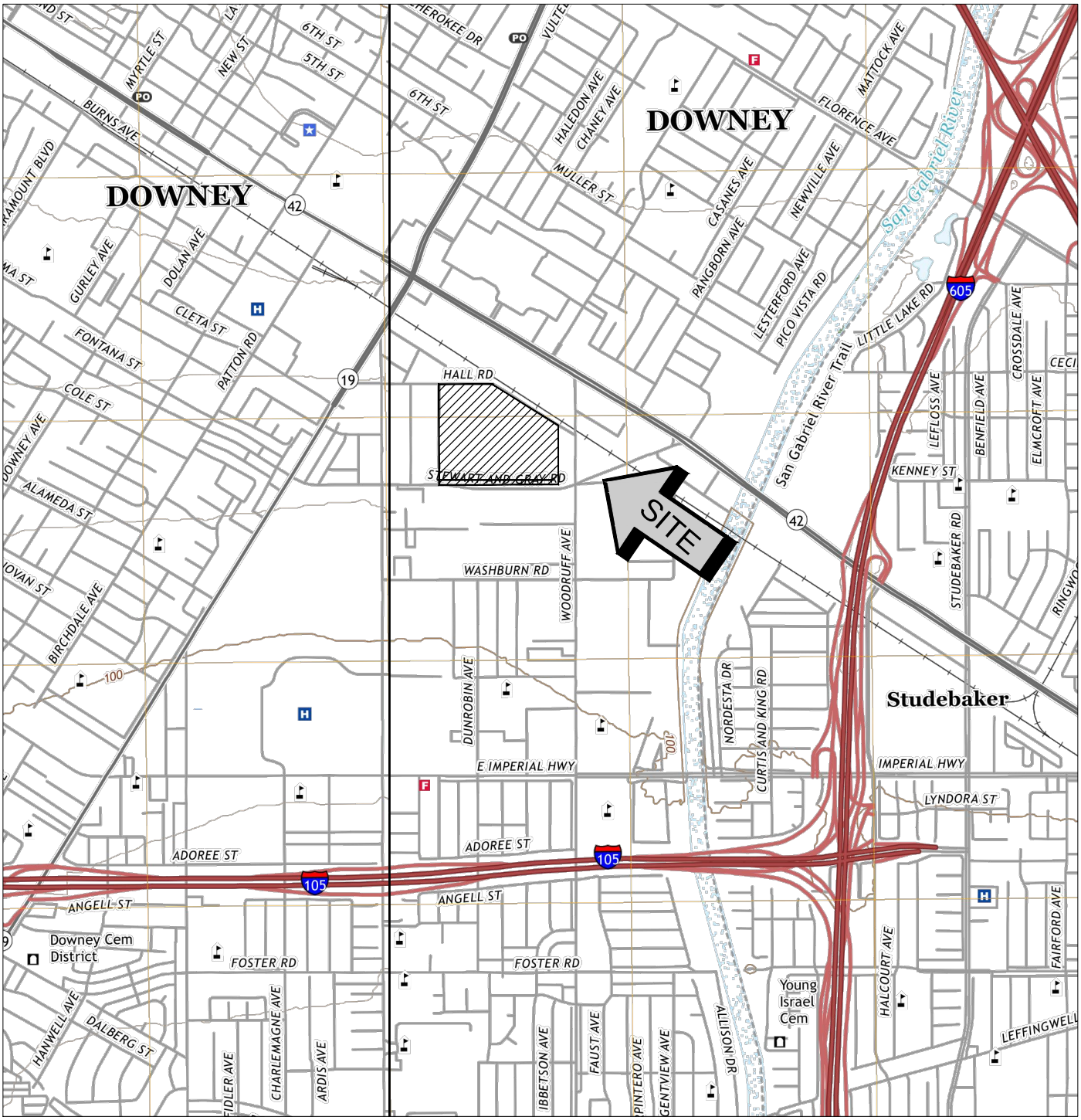
Southern California Earthquake Center (SCEC), University of Southern California, "Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California," Committee formed 1997.

Tokimatsu K., and Seed, H. B., "Evaluation of Settlements in Sands Due to Earthquake Shaking," Journal of the Geotechnical Engineering Division, American society of Civil Engineers, Volume 113, No. 8, August 1987, pp. 861-878.

Tokimatsu, K. and Yoshimi, Y., "*Empirical Correlations of Soil Liquefaction Based on SPT N-value and Fines Content,"* Seismological Research Letters, Eastern Section Seismological Society Of America, Volume 63, Number 1, p. 73.

Youd, T. L. and Idriss, I. M. (Editors), "Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils," Salt Lake City, UT, January 5-6 1996, NCEER Technical Report NCEER-97-0022, Buffalo, NY.

APPENDIX A



SOURCE: USGS TOPOGRAPHIC MAP OF THE SOUTHGATE AND WHITTIER QUADRANGLES, LOS ANGELES COUNTY, CALIFORNIA, 2018

SITE LOCATION MAP

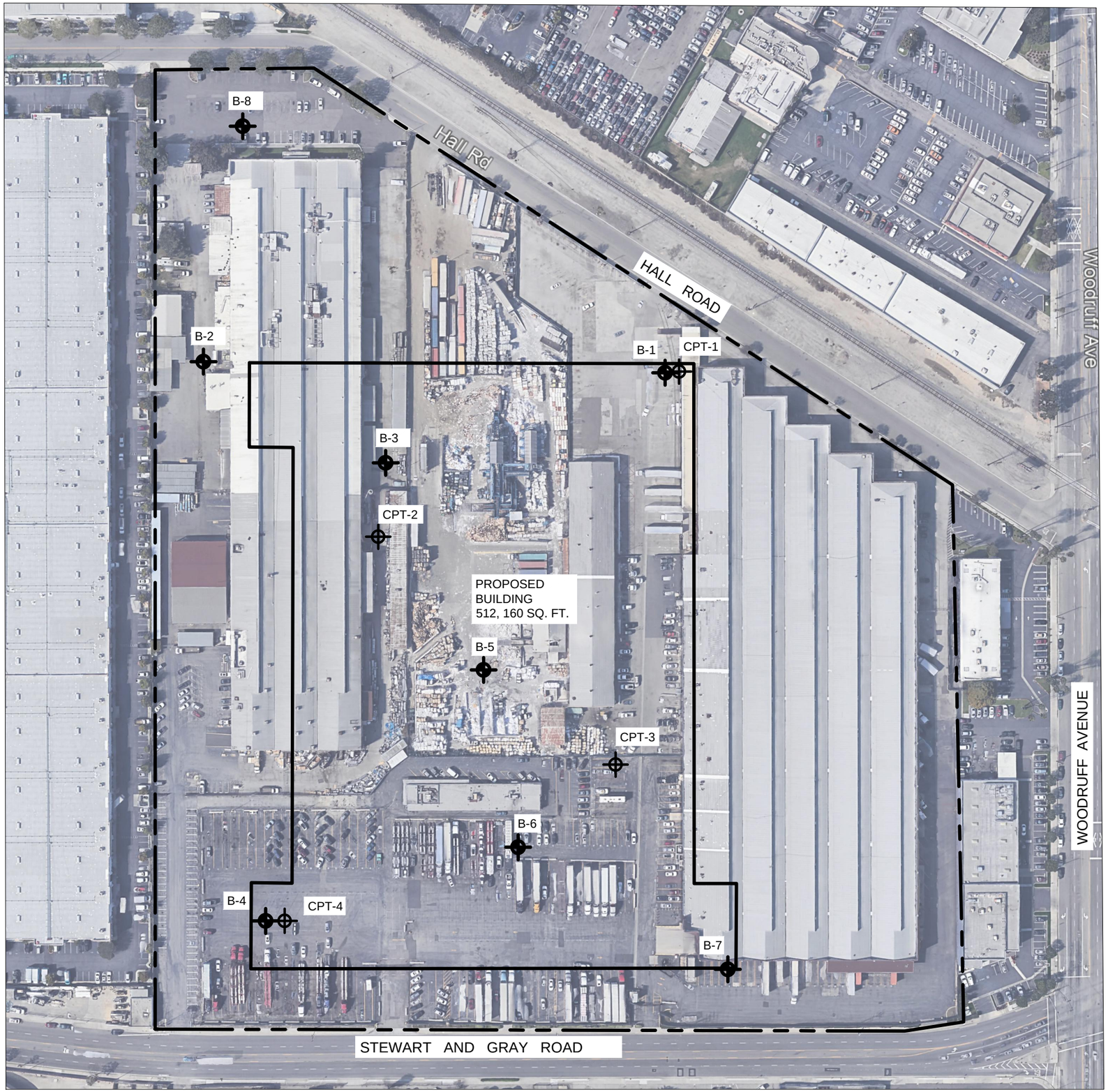
PROPOSED WAREHOUSE

DOWNEY, CALIFORNIA

SCALE: 1" = 2000'	
DRAWN: MD CHKD: RGT	
SCG PROJECT 21G132-1	
PLATE 1	

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



NORTH
SoCalGeo

APPROXIMATE BORING LOCATION
(SCG PROJECT 21G132-1)

APPROXIMATE CPT LOCATION
(SCG PROJECT 21G132-1)

BORING AND CPT LOCATION PLAN

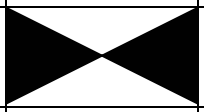
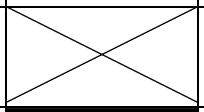
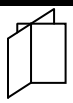
PROPOSED WAREHOUSE

DOWNEY, CALIFORNIA

SCALE: 1" = 150'	SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN:MD CHKD: RGT	
SCG PROJECT 21G132-1	
PLATE 2	

APPENDIX B

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

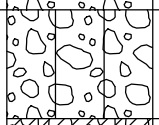
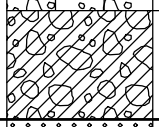
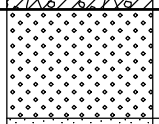
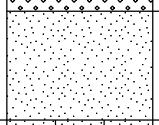
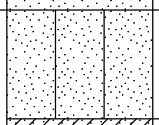
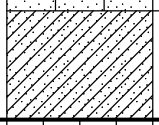
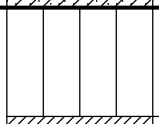
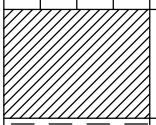
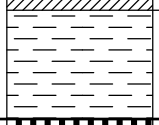
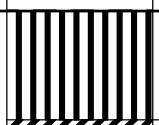
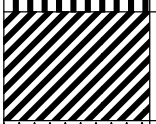
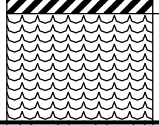
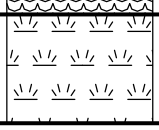
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

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

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/22/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 41 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					6± inches Asphaltic concrete; 4± inches of Aggregate base							
					FILL: Gray Brown Silty fine Sand, trace Silt nodules, mottled, loose-very moist							EI = 4, 0 to 5 feet
		14				102	16					
5		14			ALLUVIUM: Gray Brown Silty fine Sand, little Iron oxide staining, slightly porous, loose-moist to very moist	111	14					
		12				107	11					
		6	2.0		Gray Brown fine Sandy Clay, little Iron oxide staining, trace Calcareous nodules/veining, medium stiff-very moist	101	24			64		
10					Gray Brown Silty fine Sand, trace Clay, loose-very moist							
		13			Light Gray fine Sand, little Iron oxide staining, medium dense-damp		3			4		
15												
		12			Interbedded Gray to Gray Brown fine Sand and fine Sandy Silt, little Iron oxide staining, medium dense-moist		8			23		
20												
		13			Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-very moist		21			43		
25												
		27			Light Gray fine Sand, medium dense-damp		6					
30												
		10			Gray to Dark Gray Interbedded fine Sand and fine Sandy Silt, trace Charcoal, medium dense-very moist		35			76		

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-1a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/22/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 41 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Silty fine Sand, trace Clay, trace Calcareous veining, medium dense-very moist							
40		10					21			46		
					Gray fine Sandy Silt, little Clay, trace organic content, medium dense-very moist							
		16					35			92		
45					Gray fine Sand, medium dense-damp		6					
		29			@ 48½ feet, trace fine Gravel		4			4		
50					Boring Terminated at 50'							

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-1b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/23/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 23 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 6± inches of Aggregate base							
		4			FILL: Gray Brown fine Sand, trace to little Silt, very loose to loose-moist to very moist		9					
		4			ALLUVIUM: Gray Brown fine Sandy Silt, 2-inch Silty fine Sand lense, little Calcareous nodules/veining, little Iron oxide staining, very loose to loose-very moist		29					
5		5					24					
		10			Gray Brown Silty fine Sand, trace Iron oxide staining, slightly porous, medium dense-very moist		16					
10												
		10			Gray Brown fine Sandy Silt, trace Clay, trace to little Iron oxide staining, medium dense-very moist		19					
15												
		13					24					
20												
					Gray Brown Silt, trace Clay, little Iron oxide staining, medium dense-very moist							
		17					34					
					Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-very moist		12					
25												
					Boring Terminated at 25'							

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/23/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 17 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4½± inches Asphaltic Concrete; 6± inches of Aggregate base							
		8			FILL: Gray Brown Silty fine Sand, loose-damp to moist		9					
		7			ALLUVIUM: Gray Brown fine Sandy Silt, slightly porous, loose-very moist		29					
5		6					24					
		11	2.0		Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-very moist		16					
10					Gray Brown Silty Clay, slightly porous, trace Iron oxide staining, trace Calcareous nodules/veining, stiff-very moist		19					
		10			Gray Brown Silty fine Sand to fine Sandy Silt, little Clay, trace Iron oxide staining, little Calcareous nodules/veining, medium dense-moist to very moist		24					
15												
		10					34					
20												
		16			@ 23½ feet, 2-inch fine Sandy Silt lense with Iron oxide staining		12					
25					Boring Terminated at 25'							

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/22/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 44 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 2± inches of Aggregate base							
		6			FILL: Gray Brown Silty fine Sand, slightly mottled, loose-moist	101	11					
		7			ALLUVIUM: Gray Brown Silty fine Sand, slightly porous, loose-moist to very moist	100	13					
5		7				101	20					
		9			@ 7 to 10 feet, porous, little Calcareous nodules/veining, trace to little Iron oxide staining	115	18					
		11				116	12			31		
10												
		10			@ 13½ feet, trace Clay, little Iron oxide staining		18			48		
15												
					Gray Brown fine Sandy Silt, trace organics, little Iron oxide staining, slightly porous, medium dense-very moist							
		11					17			90		
20												
					Gray Brown Silt, little Clay, little fine Sand, little Iron oxide staining, medium dense-very moist							
		11					19			89		
					Gray Brown Silty fine Sand, 2-inch fine Sandy Silt lense, little Iron oxide staining, medium dense-very moist		19			40		
25												
					Gray Brown fine Sand, trace Silt, medium dense-damp							
		20					6			7		
30												
		26					5					

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-4a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/22/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 44 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Clayey Silt, trace organics, 1-inch fine Sand lense,medium stiff to stiff-very moist							
40		10	2.0				27	41	14	82		
					Gray Silty Clay, trace Maganese staining, stiff-very moist							
45		9	3.0				31	43	17	91		
					Gray fine to coarse Sand, little fine to coarse Gravel, dense-damp							
		35					3					
50					Boring Terminated at 50'							

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-4b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-5

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/23/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 23 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					7± inches Portland Cement Concrete							
		13			FILL: Gray Brown Silty fine Sand, trace medium Sand, mottled, loose-moist	109	12					
		9			ALLUVIUM: Gray Brown Silty fine Sand, slightly porous, loose-very moist	95	16					
5		13			@ 5 feet, porous, trace organics, trace Iron oxide staining	102	21					
		12				112	16					
		10				115	14					
10					Gray Brown fine Sandy Silt, little Iron oxide staining, little Calcareous nodules/veining, porous, loose-very moist							
		12				100	22					
15					Gray Brown Silty fine Sand to fine Sandy Silt, slightly porous, little Iron oxide staining, medium dense-very moist							
		15				99	18					
20					Gray Brown Silty fine Sand, little Iron oxide staining, trace to little Calcareous veining, medium dense-very moist							
		16				96	25					
25					Gray Brown fine Sandy Silt, little Iron oxide staining, medium dense-very moist							
		17				87	33					
30					Gray fine Sand, medium dense-very moist							
					Boring Terminated at 30'							

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-6

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/22/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 24 feet
READING TAKEN: At Completion

FIELD RESULTS					DESCRIPTION	LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic Concrete; 2± inches of Aggregate base							
		4			ALLUVIUM: Gray Brown Silty fine Sand, slightly porous, very loose to loose-very moist		17					
		5			@ 3½ feet, trace Iron oxide staining		13					
5		8			@ 6 feet, porous		16					
		10			@ 8½ feet, moist		13					
10												
		10	3.0		Gray Brown Clayey Silt, trace fine Sand, little Iron oxide staining, little Calcareous nodules/veining, slightly porous, stiff to very stiff-very moist		29					
15												
		11			Gray Brown fine Sandy Silt, little Iron oxide staining, medium dense-very moist		20					
20												
		12			Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-very moist		24					
25												
		25			Gray fine Sand, medium dense-damp		4					
30					Boring Terminated at 30'							

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-7

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/22/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 18 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					8± inches Asphaltic Concrete; 3± inches of Aggregate base							
		8			FILL: Gray Brown Silty fine Sand to fine Sandy Silt, trace fine to coarse Gravel, slightly mottled, loose-very moist	106	14					
		7				100	20					
5		10			ALLUVIUM: Gray Brown Silty fine Sand, trace Iron oxide staining, slightly porous, loose-moist to very moist	97	10					
		16			@ 7 feet, trace Calcareous veining, medium dense	105	16					
10		12			@ 9 feet, little Calcareous nodules and veining	98	22					
		10			Gray Brown fine Sandy Silt, little Clay, little Iron oxide staining, little Calcareous veining/nodules, loose to medium dense-very moist		27					
15												
		10			Gray Brown Silty fine Sand, 2-inch Silty Clay lense, little Iron oxide staining, loose to medium dense-moist		12					
20												
		19			Gray Brown fine Sand, medium dense-damp		4					
25					Boring Terminated at 25'							

TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-8

JOB NO.: 21G132-1
PROJECT: Proposed Warehouse
LOCATION: Downey, California

DRILLING DATE: 4/23/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 8 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		10			4± inches Asphaltic Concrete underlain by 2± inches Silty Sand, over 2± inches Asphaltic Concrete underlain by 3± inches Aggregate Base over 2± inches Asphaltic Concrete		6					
					FILL: Gray Brown fine Sand, trace Silt, loose to medium dense-damp							
		6			ALLUVIUM: Light Gray Brown fine Sand, little Silt, little Iron oxide staining, 2±-inch fine Sandy Silt lense with Iron oxide staining, loose-very moist		18					
5												
		4			Light Gray Brown Silty fine Sand, little Clay, trace Iron oxide staining, very loose to loose-moist		12					
					Gray Brown Silty fine Sand to fine Sandy Silt, trace Iron oxide staining, trace Calcareous nodules/veining, porous, very loose to loose-moist to very moist		23					
		7					19					
10					Boring Terminated at 10'							

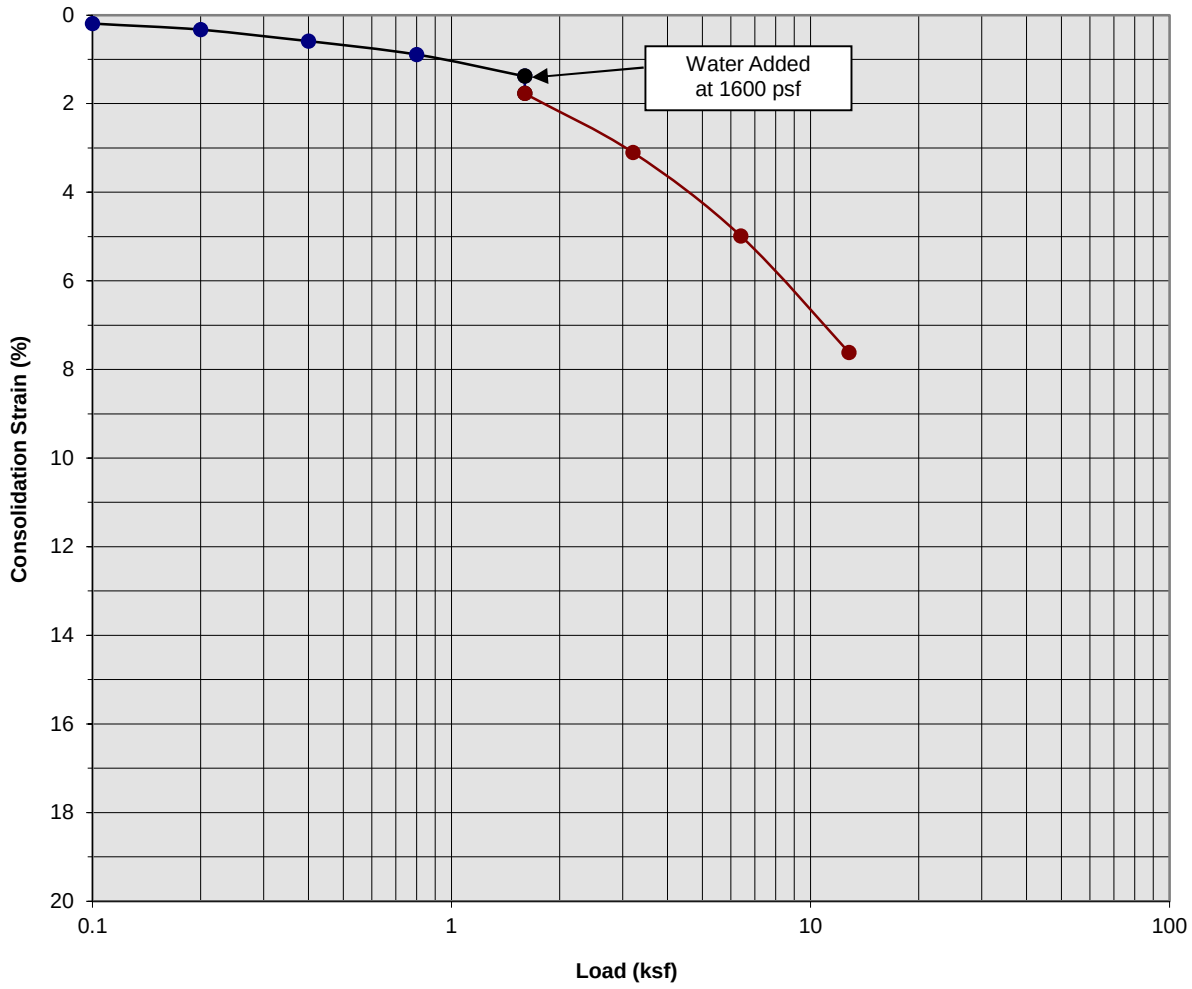
TBL 21G132-1.GPJ SOCALGEO.GDT 5/28/21

TEST BORING LOG

PLATE B-8

APPENDIX C

Consolidation/Collapse Test Results



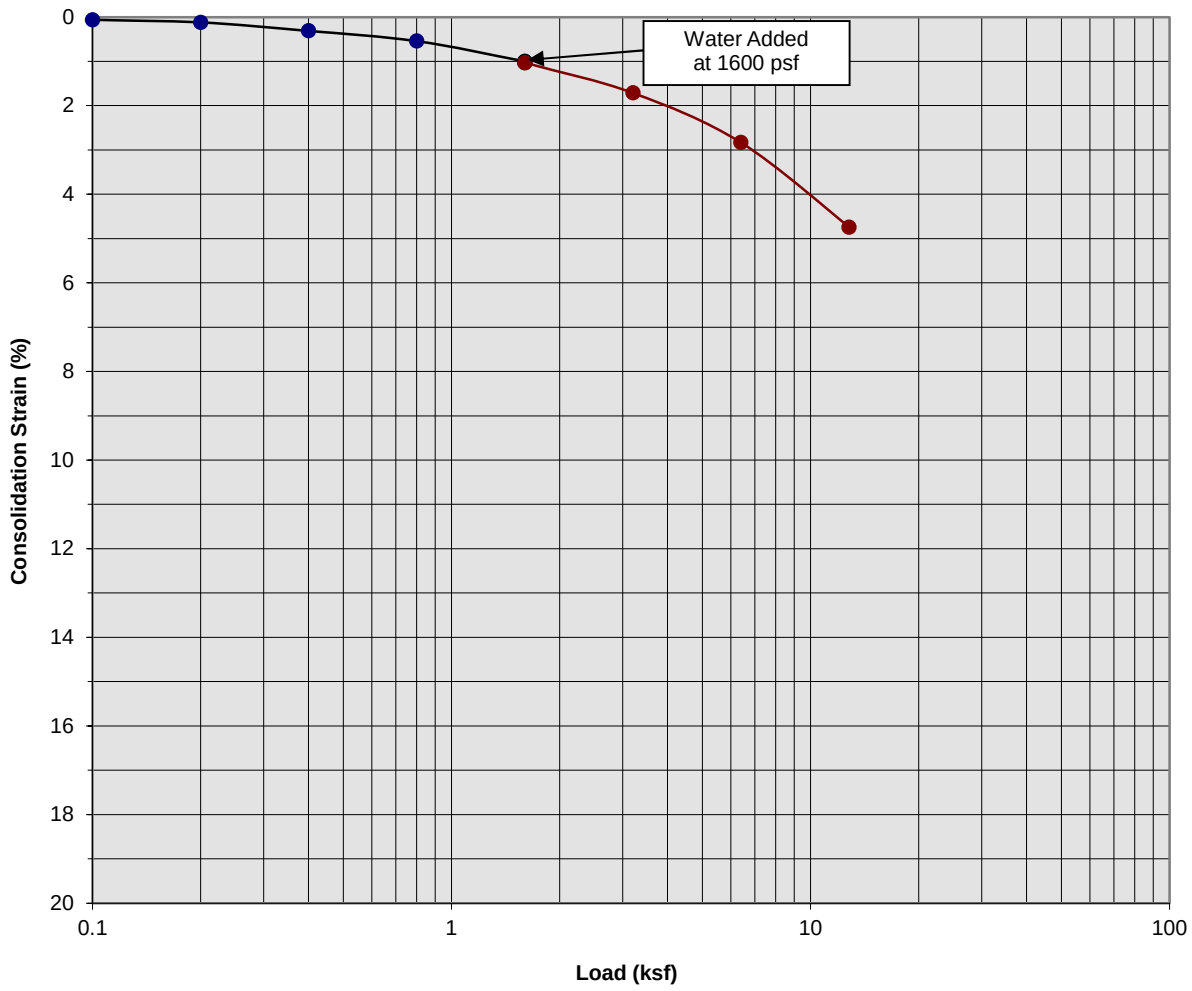
Classification: Gray Brown Silty fine Sand

Boring Number:	B-4	Initial Moisture Content (%)	13
Sample Number:	---	Final Moisture Content (%)	19
Depth (ft)	3 to 4	Initial Dry Density (pcf)	99.5
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	107.4
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.39

Proposed Warehouse
Downey, California
Project No. 21G132-1
PLATE C- 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Silty fine Sand

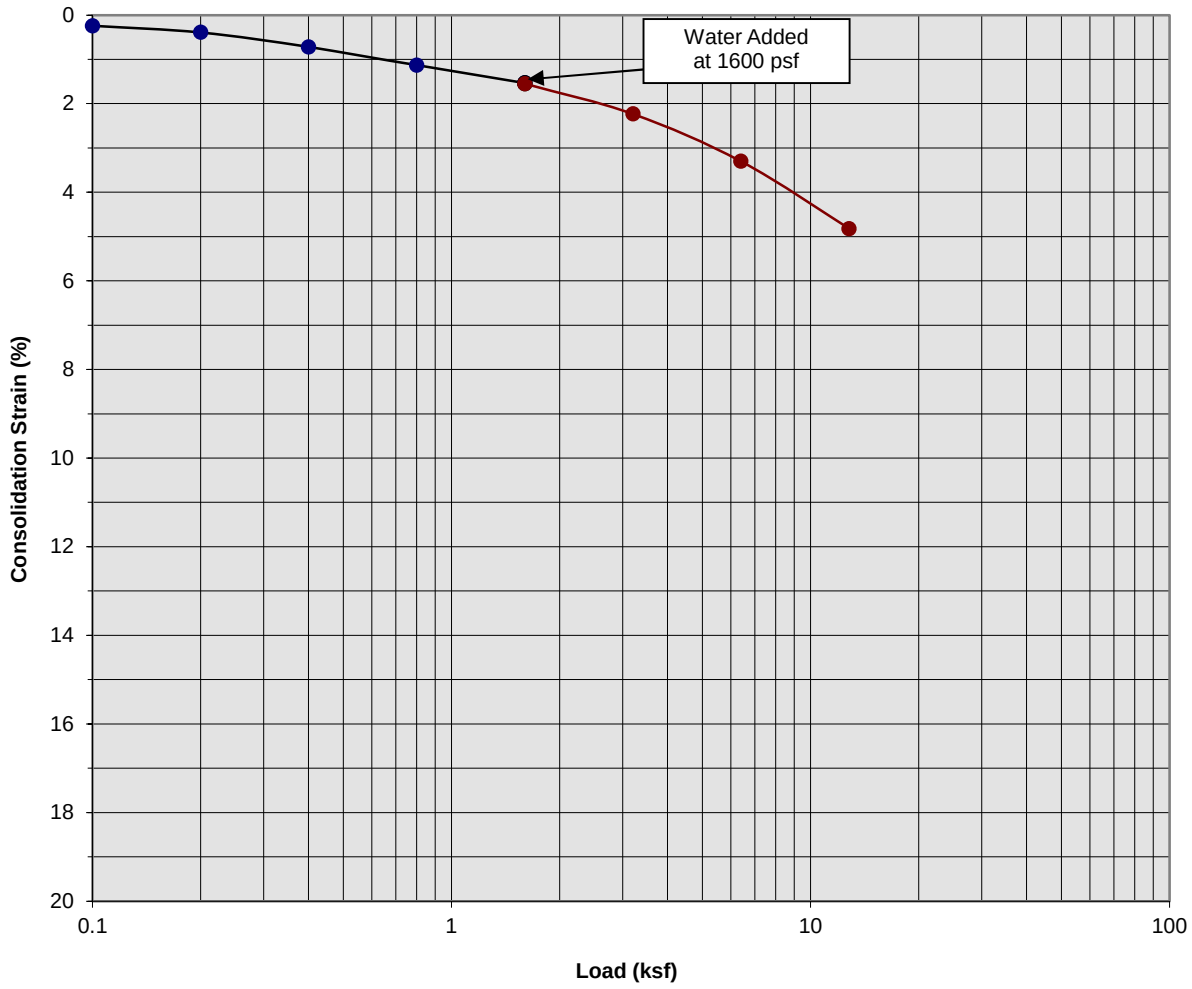
Boring Number:	B-4	Initial Moisture Content (%)	19
Sample Number:	---	Final Moisture Content (%)	22
Depth (ft)	5 to 6	Initial Dry Density (pcf)	101.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	105.9
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.03

Proposed Warehouse
Downey, California
Project No. 21G132-1

PLATE C- 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Silty fine Sand

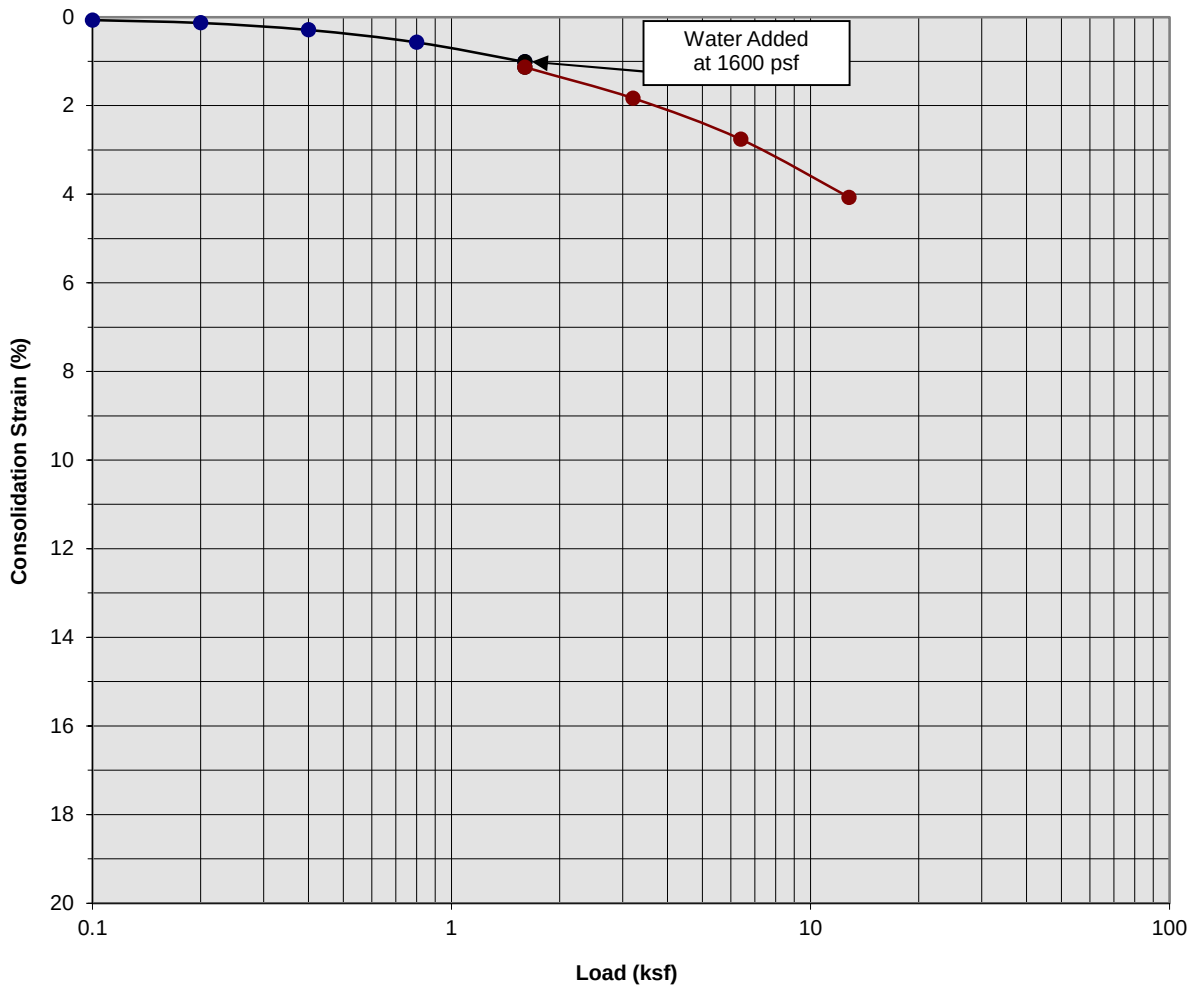
Boring Number:	B-4	Initial Moisture Content (%)	18
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	7 to 8	Initial Dry Density (pcf)	115.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.3
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.02

Proposed Warehouse
Downey, California
Project No. 21G132-1

PLATE C- 3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Silty fine Sand

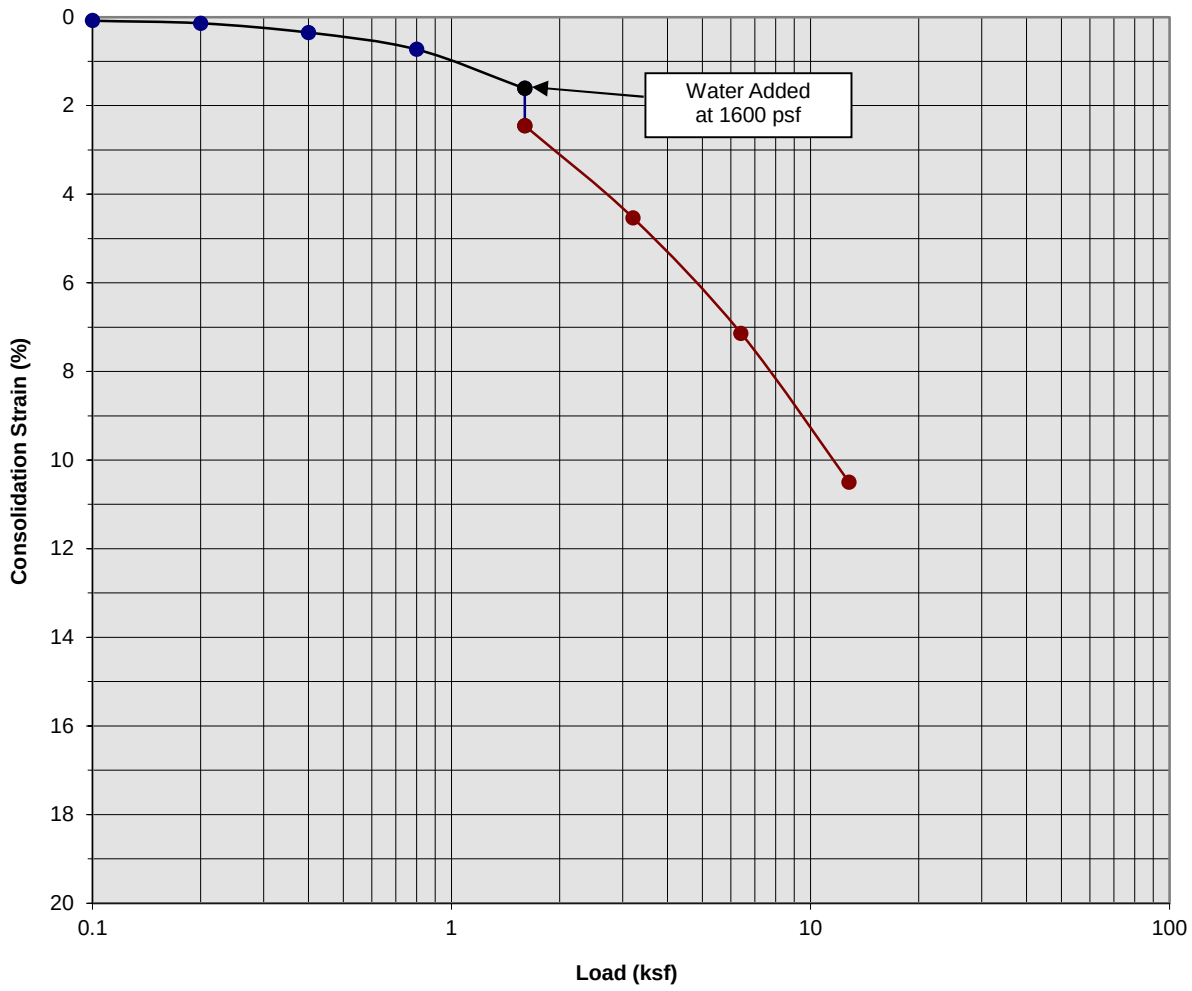
Boring Number:	B-4	Initial Moisture Content (%)	12
Sample Number:	---	Final Moisture Content (%)	13
Depth (ft)	9 to 10	Initial Dry Density (pcf)	116.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.9
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.12

Proposed Warehouse
Downey, California
Project No. 21G132-1

PLATE C- 4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



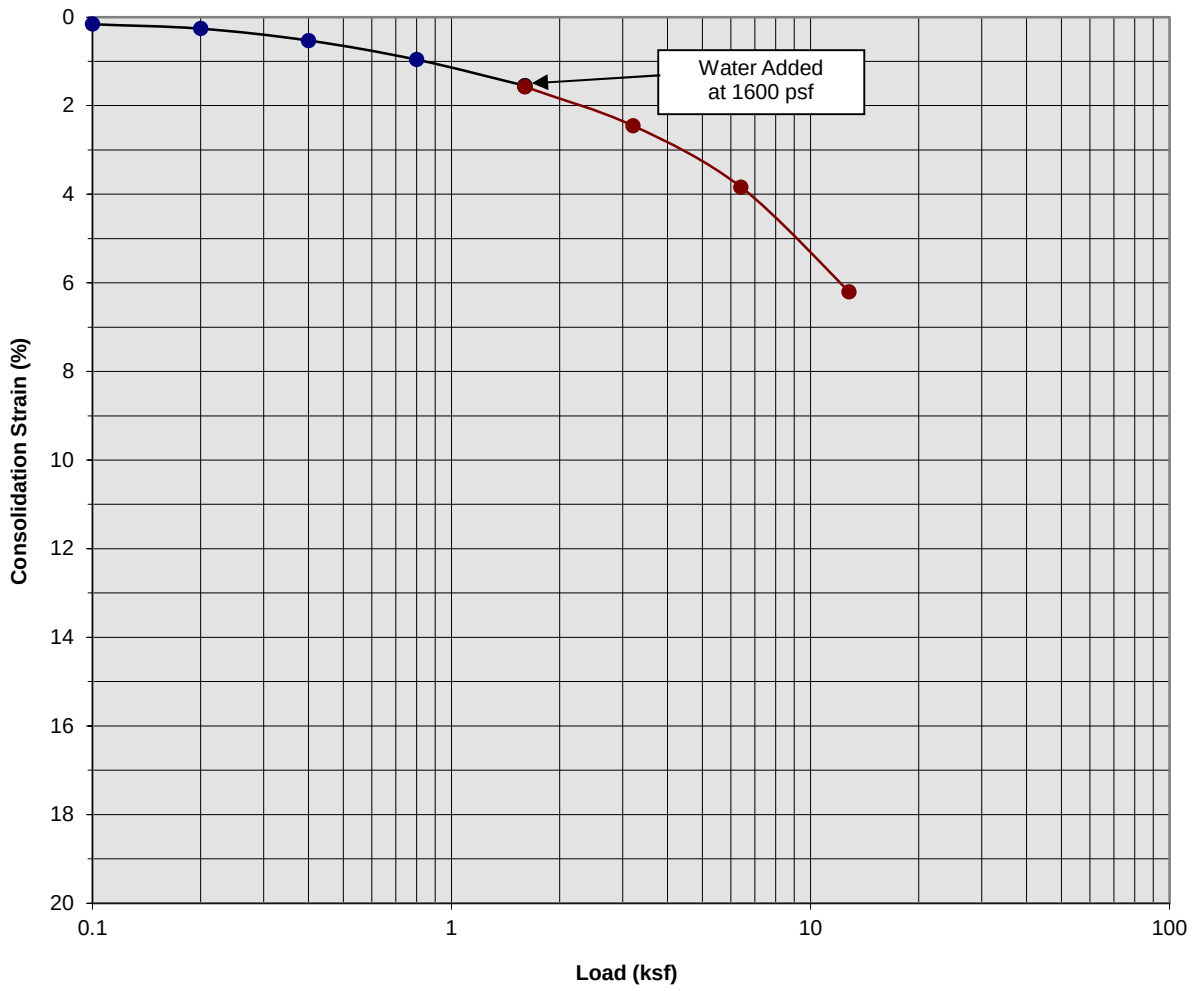
Classification: Gray Brown Silty fine Sand

Boring Number:	B-5	Initial Moisture Content (%)	16
Sample Number:	---	Final Moisture Content (%)	25
Depth (ft)	3 to 4	Initial Dry Density (pcf)	95.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	106.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.84

Proposed Warehouse
Downey, California
Project No. 21G132-1
PLATE C- 5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Silty fine Sand

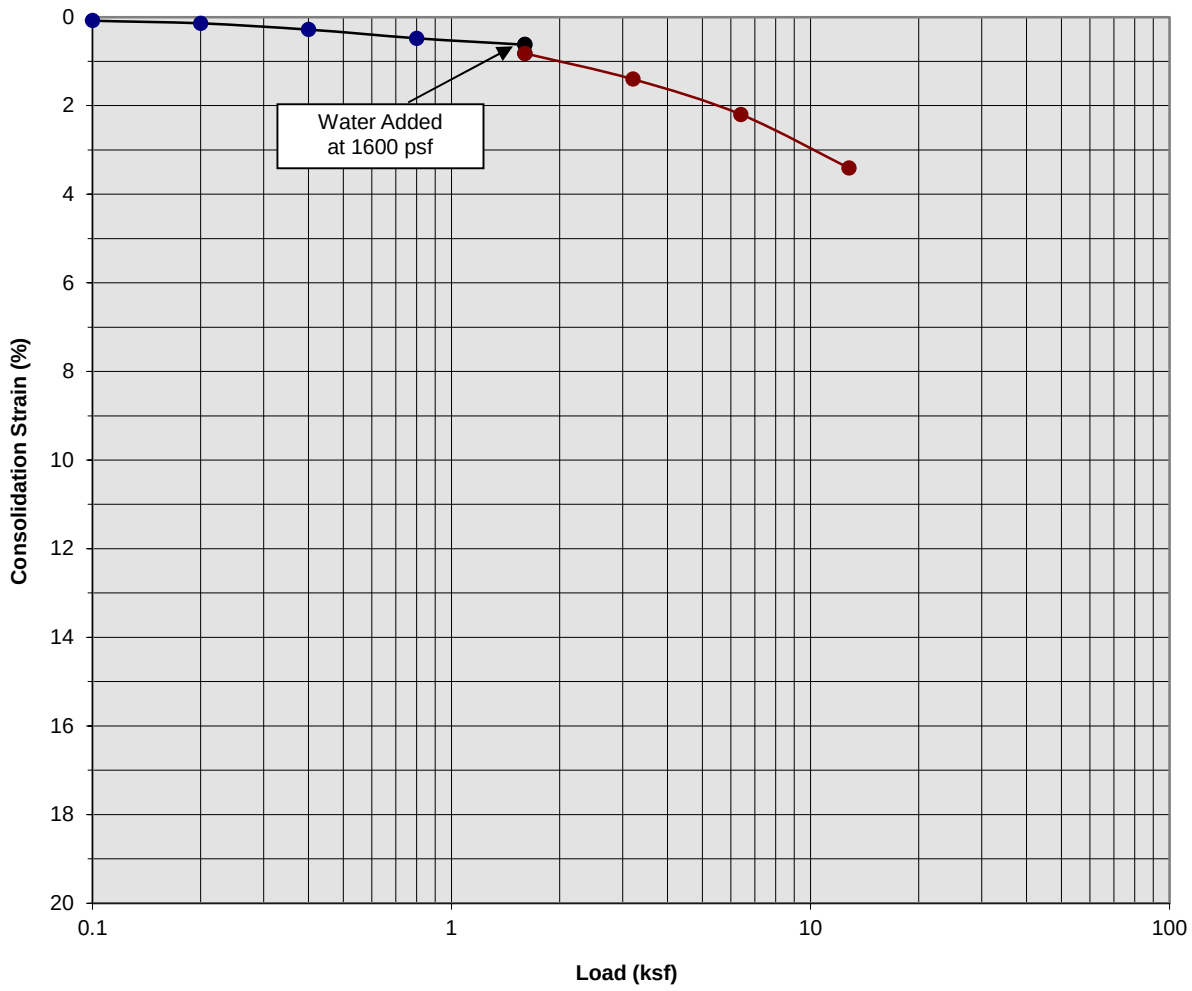
Boring Number:	B-5	Initial Moisture Content (%)	22
Sample Number:	---	Final Moisture Content (%)	24
Depth (ft)	5 to 6	Initial Dry Density (pcf)	102.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	109.3
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.02

Proposed Warehouse
Downey, California
Project No. 21G132-1

PLATE C- 6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



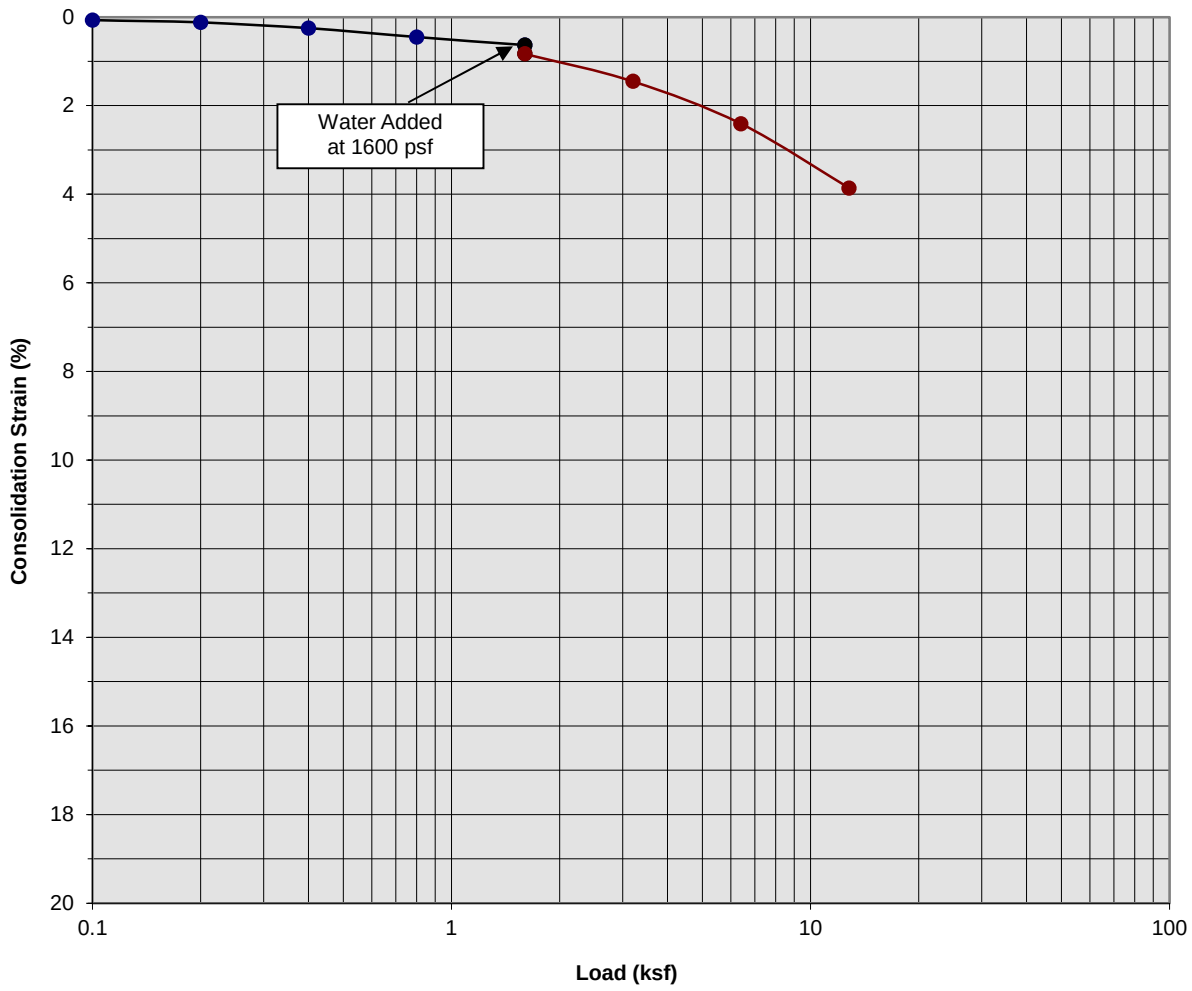
Classification: Gray Brown Silty fine Sand

Boring Number:	B-5	Initial Moisture Content (%)	15
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	7 to 8	Initial Dry Density (pcf)	112.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	116.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.20

Proposed Warehouse
Downey, California
Project No. 21G132-1
PLATE C- 7

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Silty fine Sand

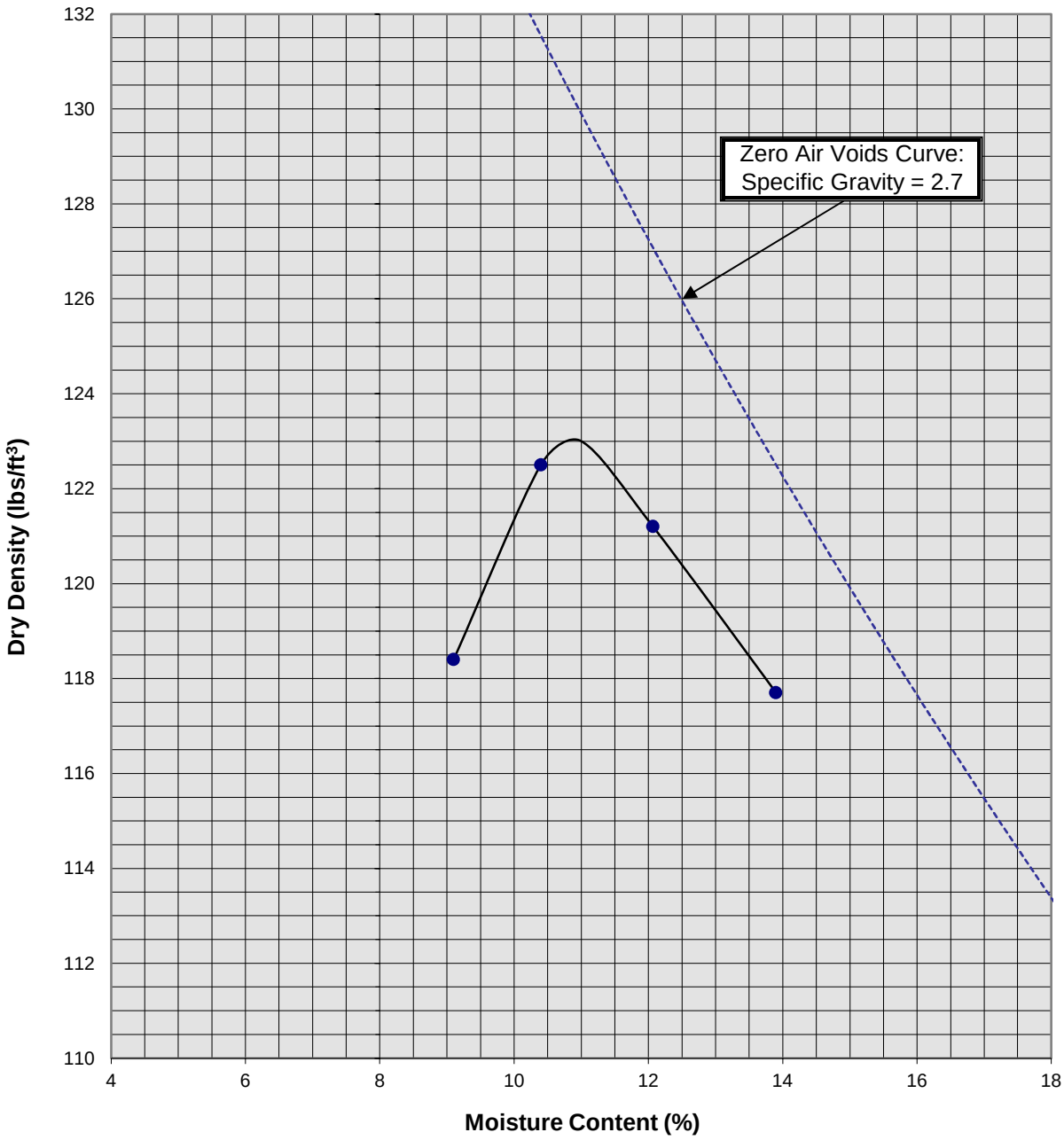
Boring Number:	B-5	Initial Moisture Content (%)	14
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	9 to 10	Initial Dry Density (pcf)	114.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	119.6
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.20

Proposed Warehouse
Downey, California
Project No. 21G132-1

PLATE C- 8

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Moisture/Density Relationship
ASTM D-1557



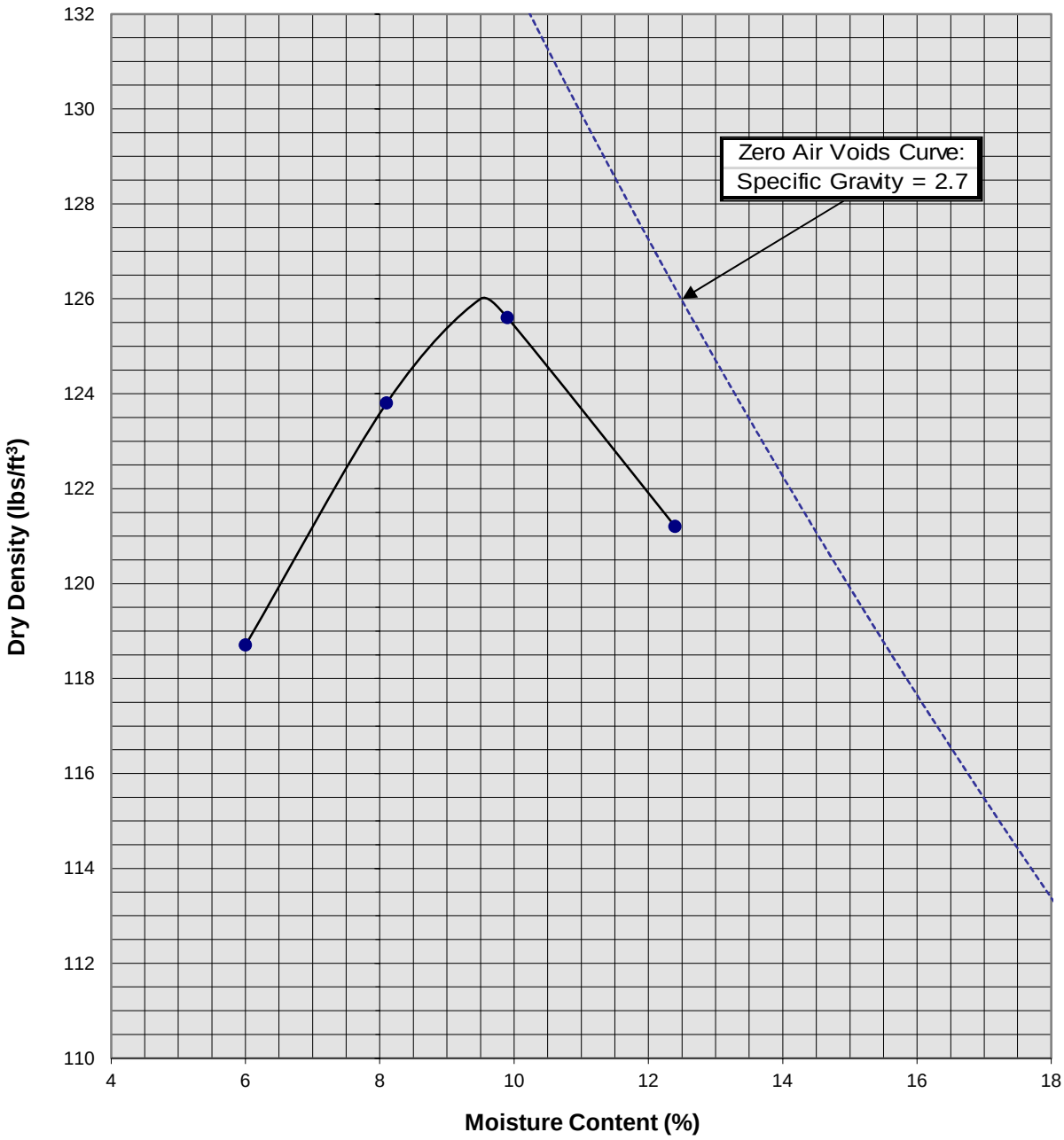
Soil ID Number	B-1 @ 0-5'
Optimum Moisture (%)	11
Maximum Dry Density (pcf)	123
Soil Classification	Gray Brown Silty fine Sand

Proposesd Warehouse
Downey, California
Project No. 21G132-1

PLATE C-9

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-7 @ 0-5'
Optimum Moisture (%)	9.5
Maximum Dry Density (pcf)	126
Soil Classification	Gray Brown Silty fine Sand to fine Sandy Silt, trace fine to coarse Gravel

Proposesd Warehouse
Downey, California
Project No. 21G132-1

PLATE C-10

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as “contaminated,” and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

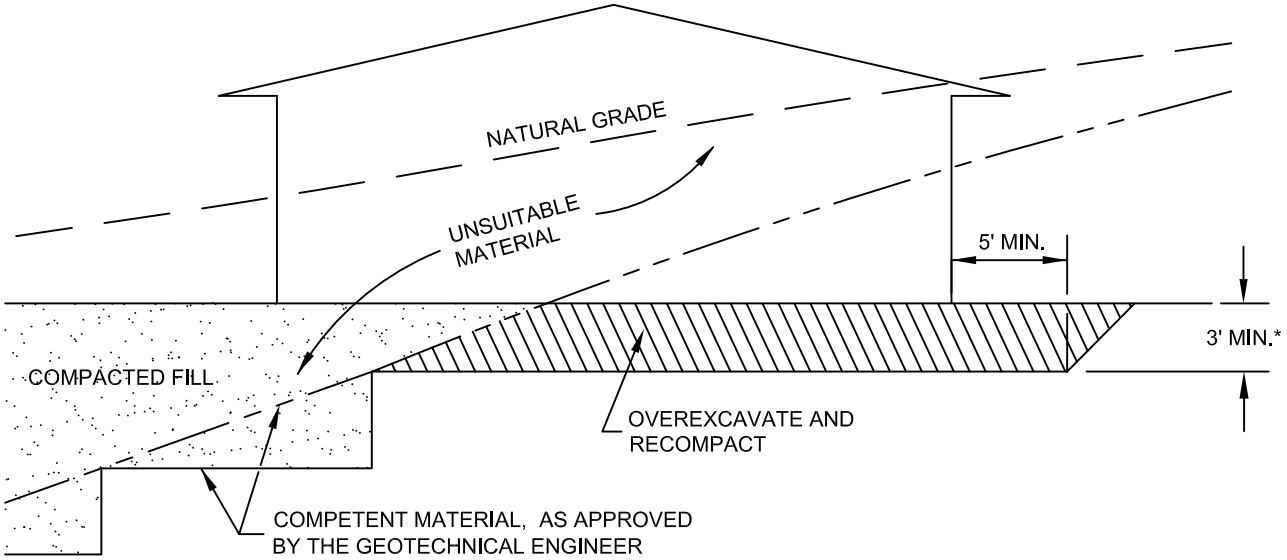
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

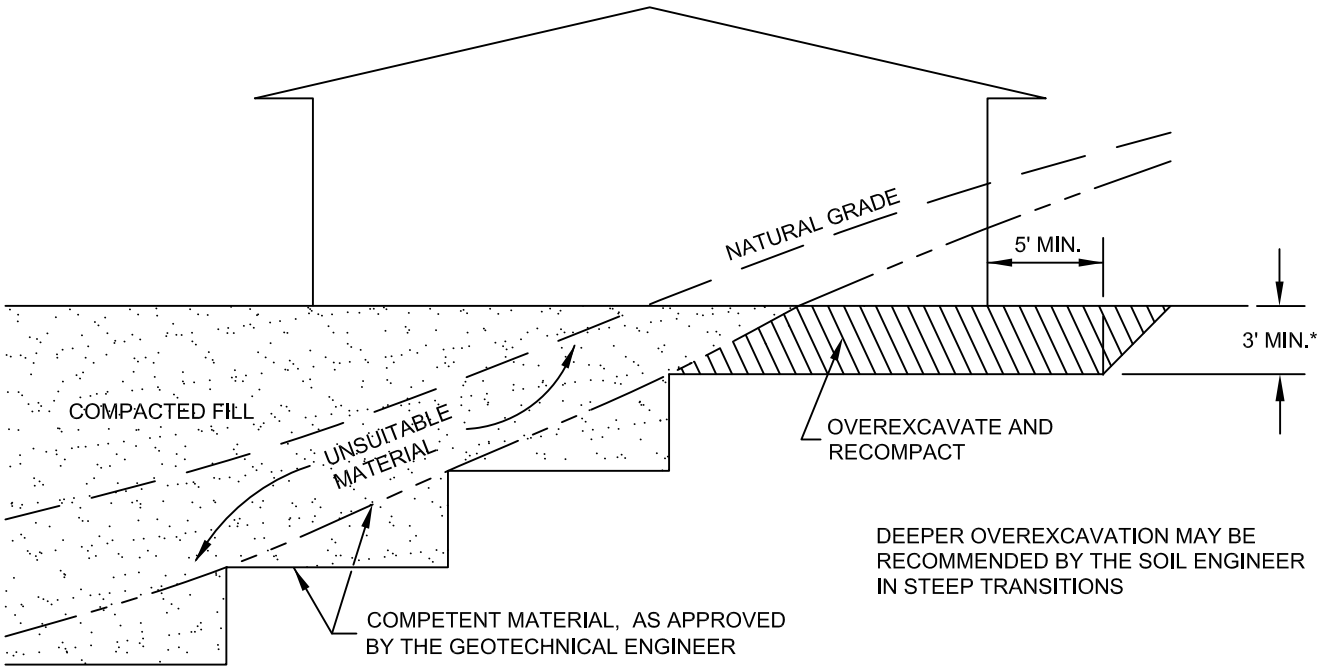
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)

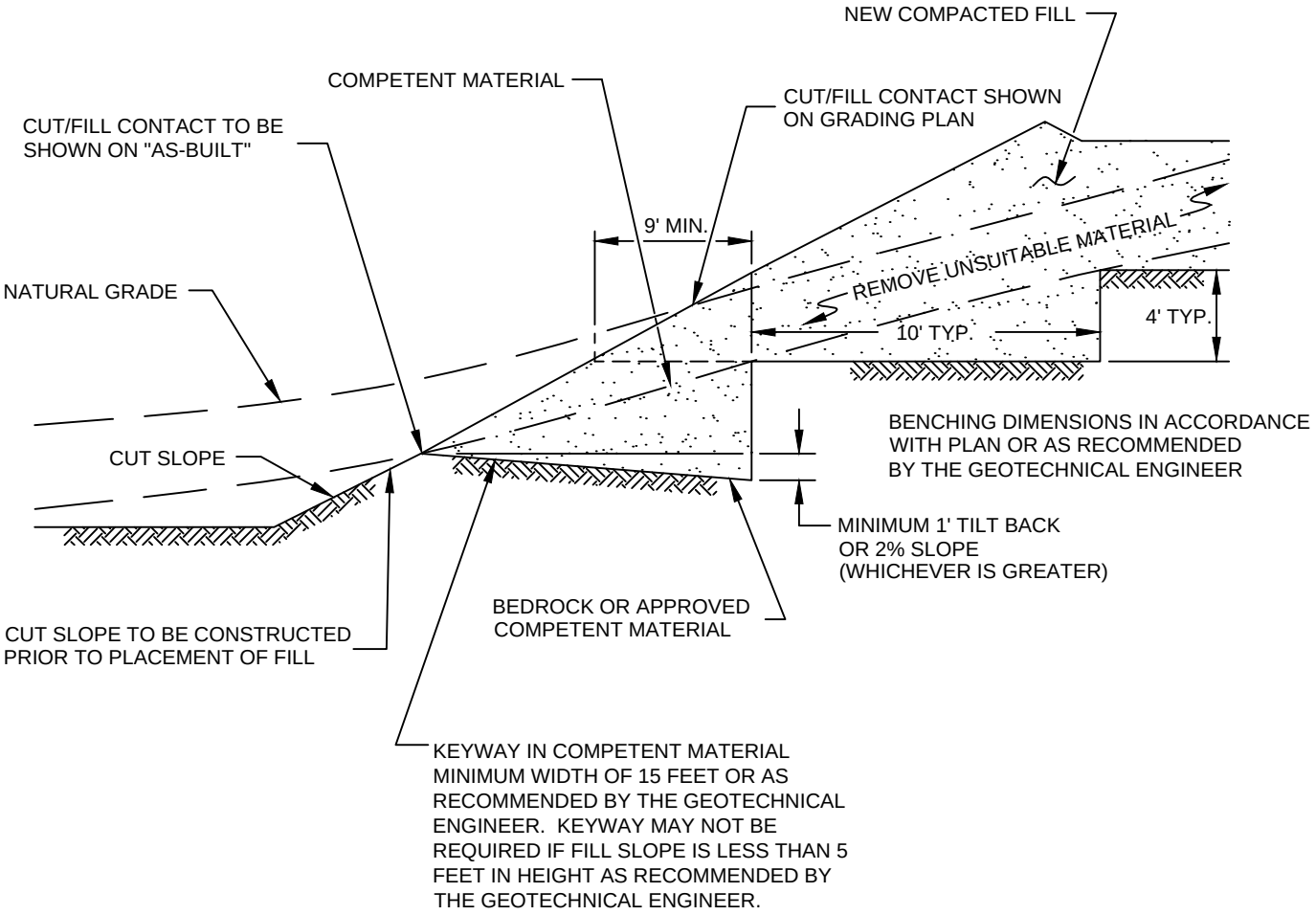


*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION. ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

TRANSITION LOT DETAIL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE	SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-1	



FILL ABOVE CUT SLOPE DETAIL

GRADING GUIDE SPECIFICATIONS

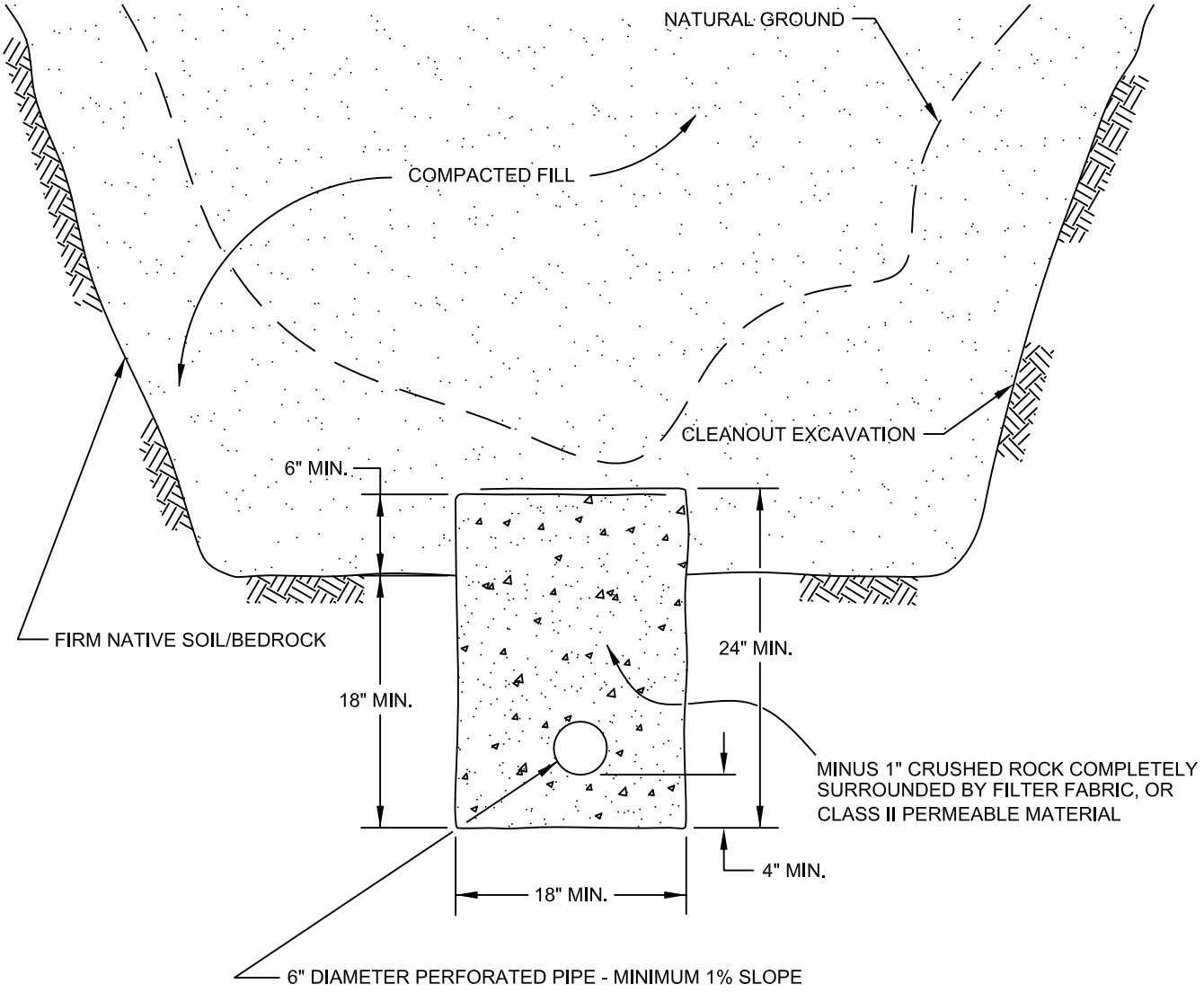
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

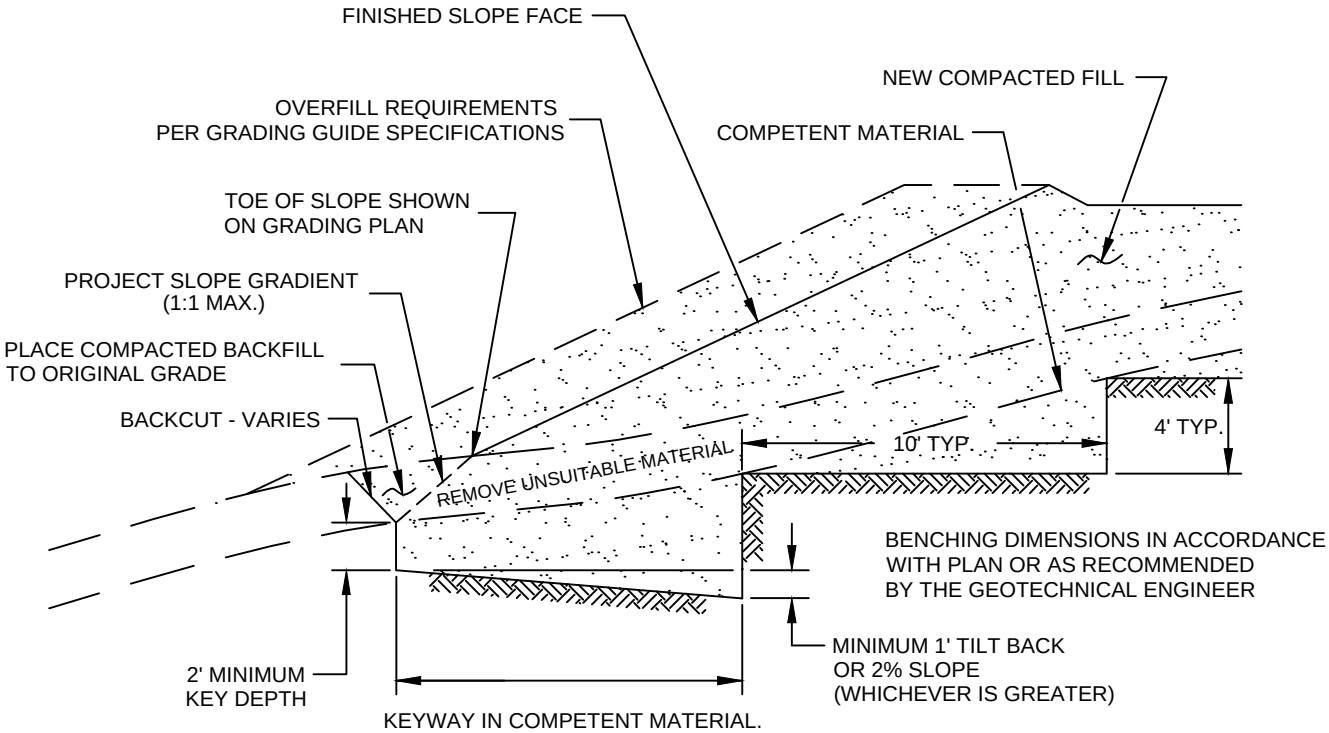
SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE
DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



NOTE:
BENCHING SHALL BE REQUIRED WHEN NATURAL SLOPES ARE EQUAL TO OR STEEPER THAN 5:1 OR WHEN RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL

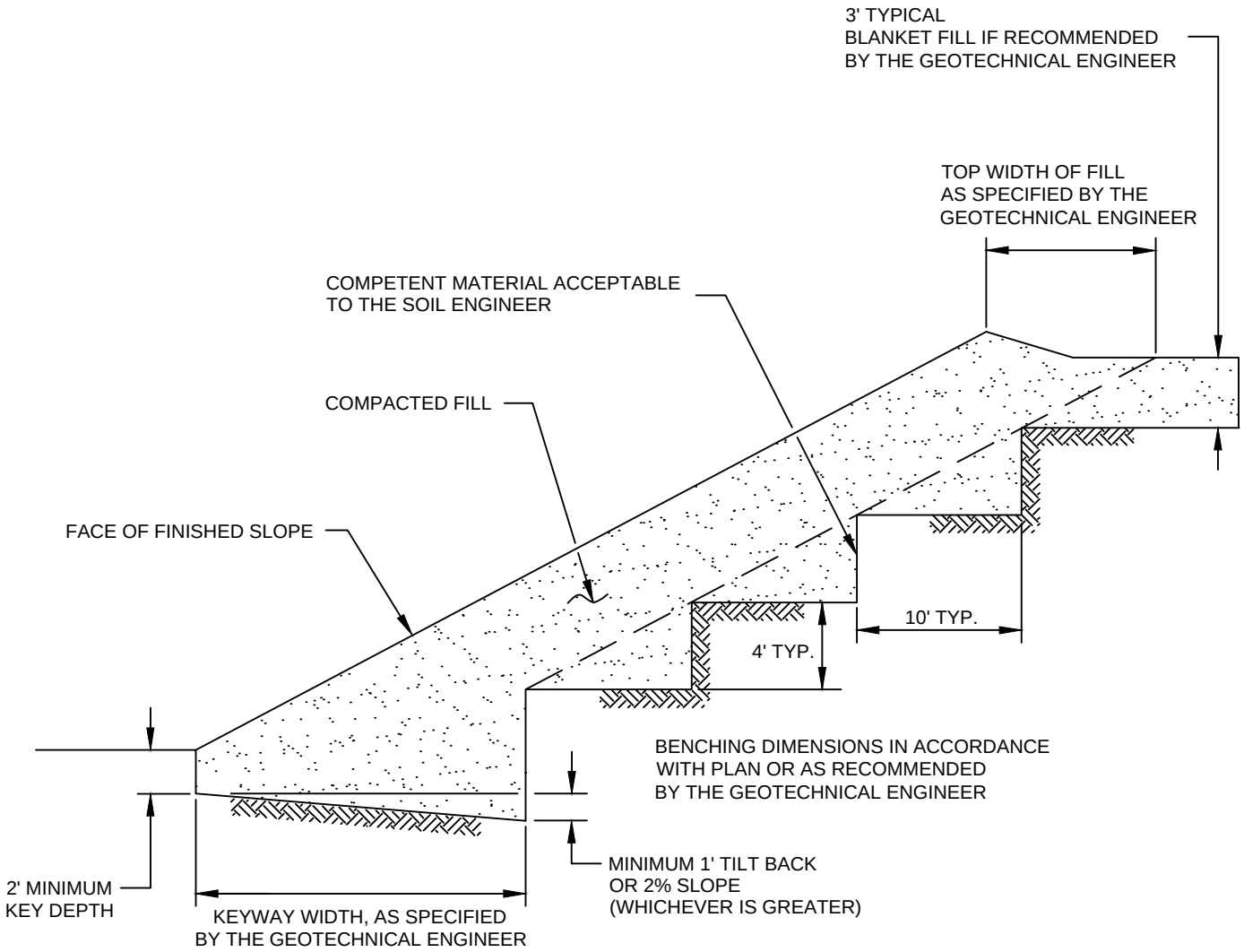
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



STABILIZATION FILL DETAIL

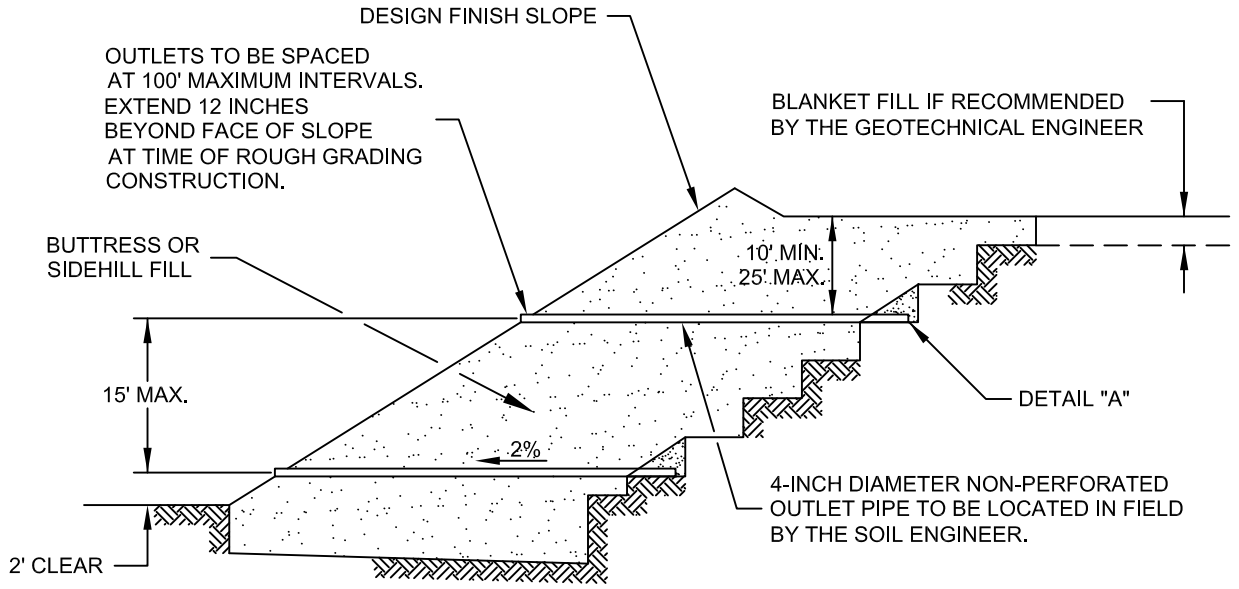
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



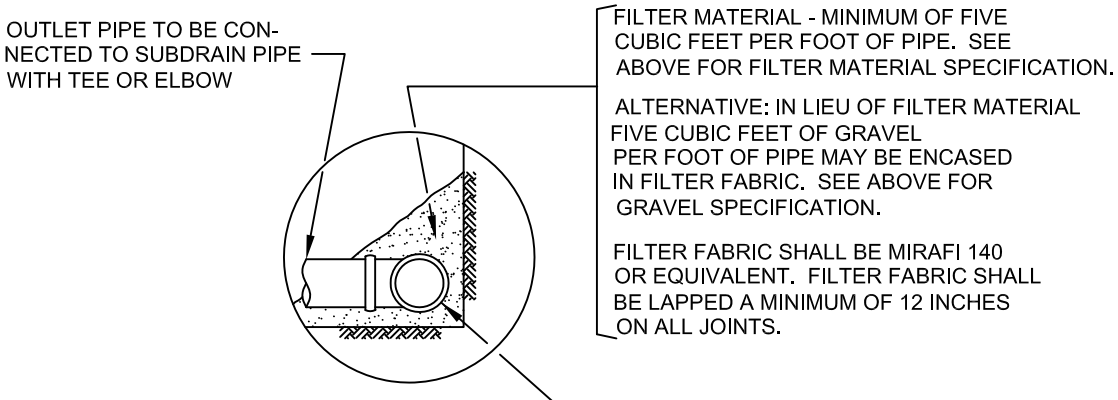
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

NOTES:
1. TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS

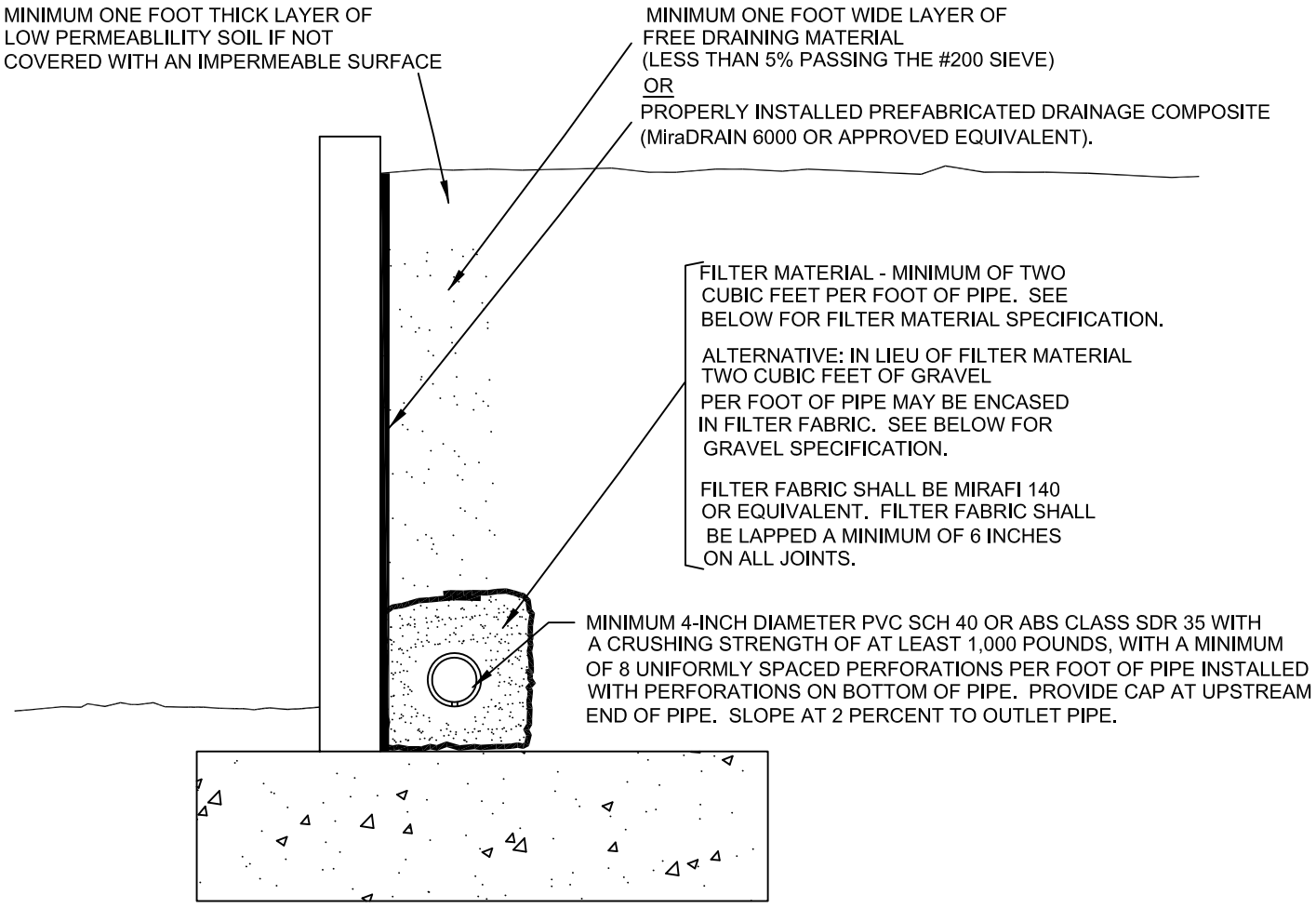
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

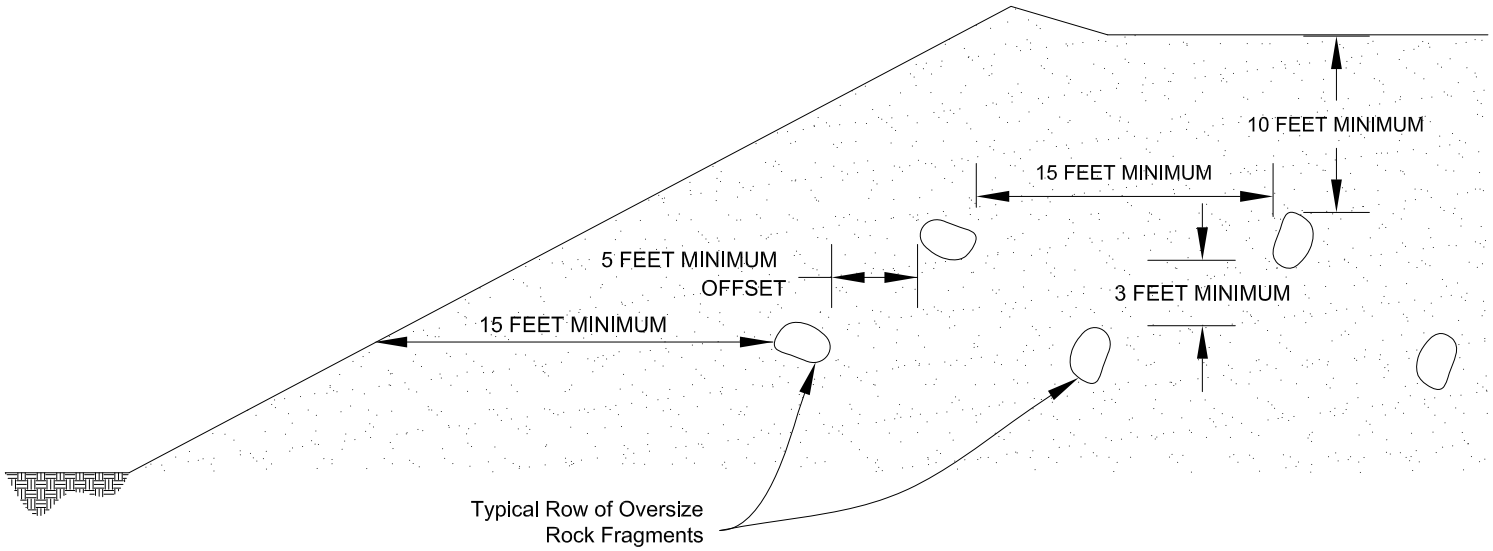
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

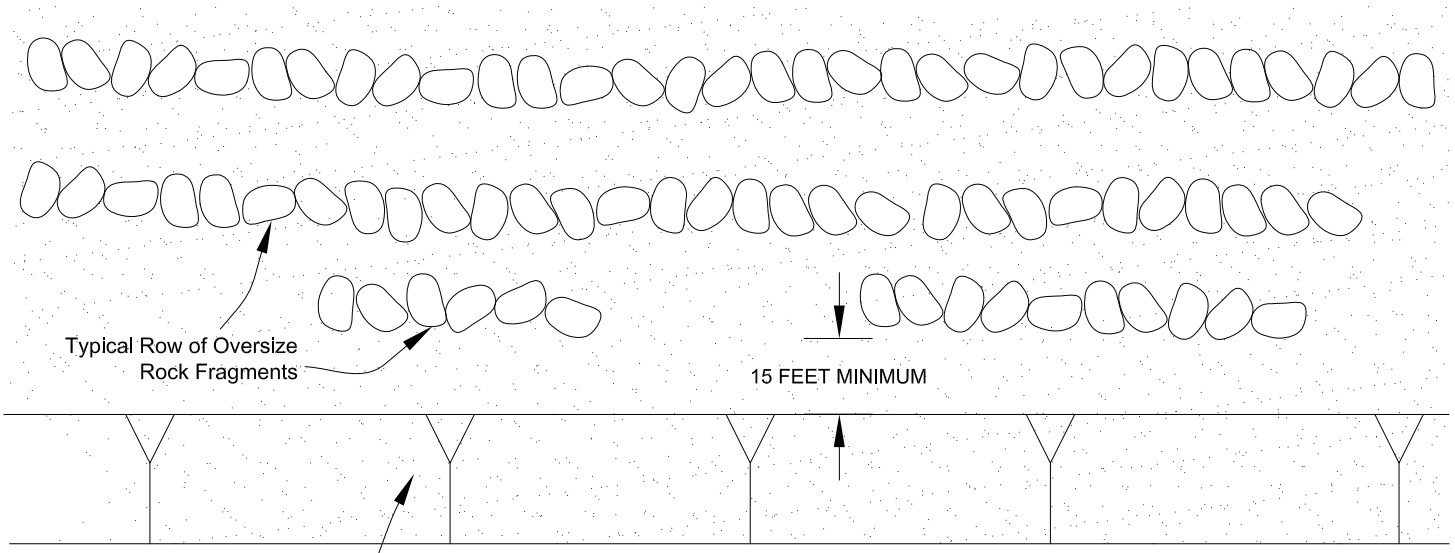
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

Latitude, Longitude: 33.9297, -118.119

Date	4/29/2021, 4:08:27 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.68	MCE_R ground motion. (for 0.2 second period)
S_1	0.603	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.68	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.12	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.719	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.791	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.68	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.852	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.397	Factored deterministic acceleration value. (0.2 second)
S1RT	0.603	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.668	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.803	Factored deterministic acceleration value. (1.0 second)
PGAd	0.967	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.907	Mapped value of the risk coefficient at short periods
C_{R1}	0.902	Mapped value of the risk coefficient at a period of 1 s

SOURCE: SEAOC/OSHPD Seismic Design Maps Tool
<https://seismicmaps.org/>

SEISMIC DESIGN PARAMETERS - 2019 CBC

PROPOSED WAREHOUSE

DOWNEY, CALIFORNIA

DRAWN: MD
CHKD: RGT

SCG PROJECT
21G132-1

PLATE E-1

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX F

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

9300 Hall Road
Downey, CA
May 4, 2021

Prepared for:

Mr. Daryl Kas
Southern California Geotechnical, Inc.
22885 E. Savi Ranch Parkway, Ste E
Yorba Linda, CA 92887
Office (714) 685-1115 / Fax (714) 685-1118

Prepared by:

KEHOE TESTING & ENGINEERING
5415 Industrial Drive
Huntington Beach, CA 92649-1518
Office (714) 901-7270 / Fax (714) 901-7289
www.kehoetesting.com

TABLE OF CONTENTS

1. **INTRODUCTION**
2. **SUMMARY OF FIELD WORK**
3. **FIELD EQUIPMENT & PROCEDURES**
4. **CONE PENETRATION TEST DATA & INTERPRETATION**

APPENDIX

- CPT Plots
- CPT Classification/Soil Behavior Chart
- CPT Data Files (sent via email)

SUMMARY

OF

CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the project located at 9300 Hall Road in Downey, California. The work was performed by Kehoe Testing & Engineering (KTE) on May 4, 2021. The scope of work was performed as directed by Southern California Geotechnical, Inc. personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at four locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	50	
CPT-2	50	
CPT-3	50	
CPT-4	50	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone and recorded the following parameters at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING

Steven P. Kehoe
President

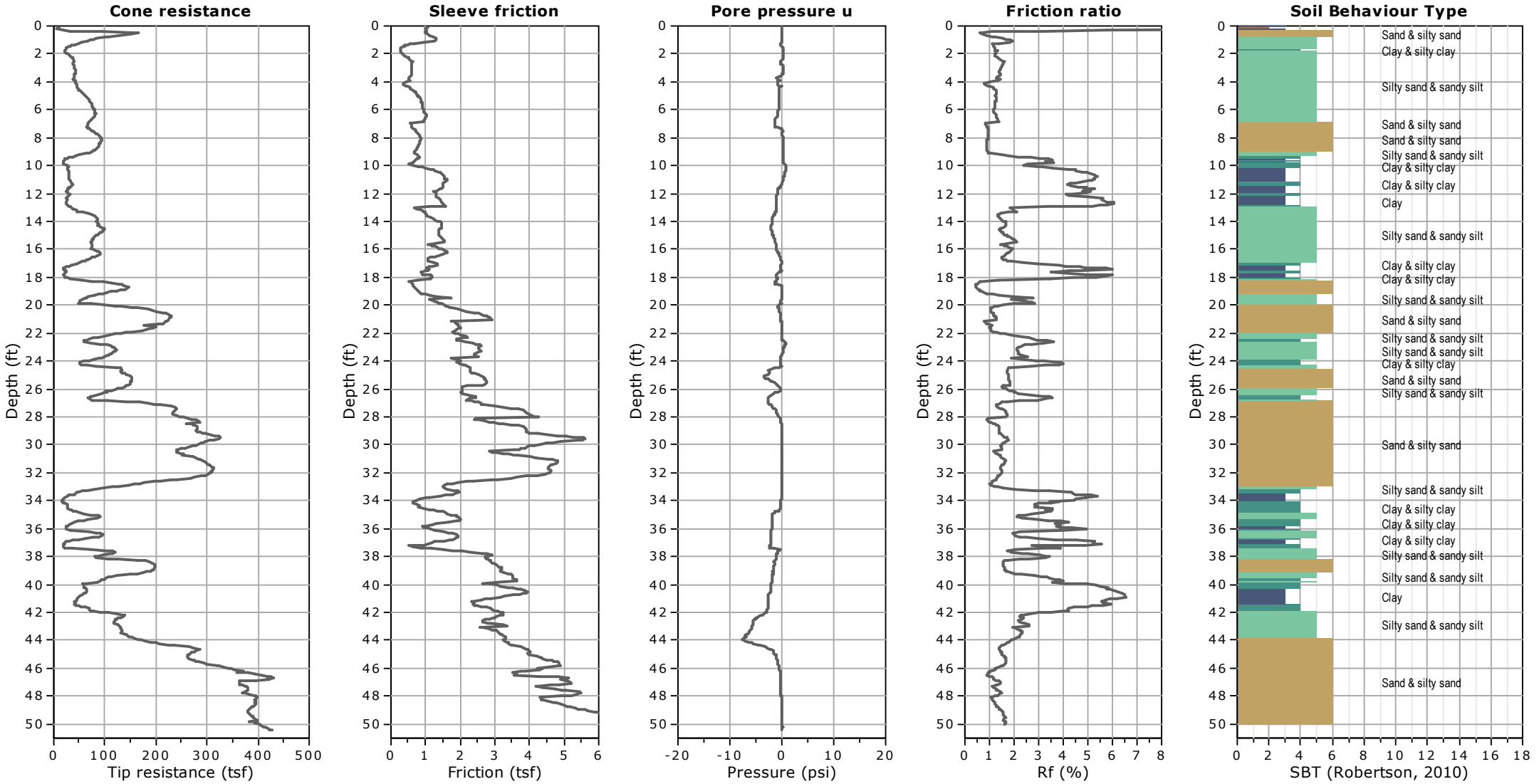
05/05/21-kk-2833

APPENDIX

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical**
Location: **9300 Hall Rd, Downey, CA**

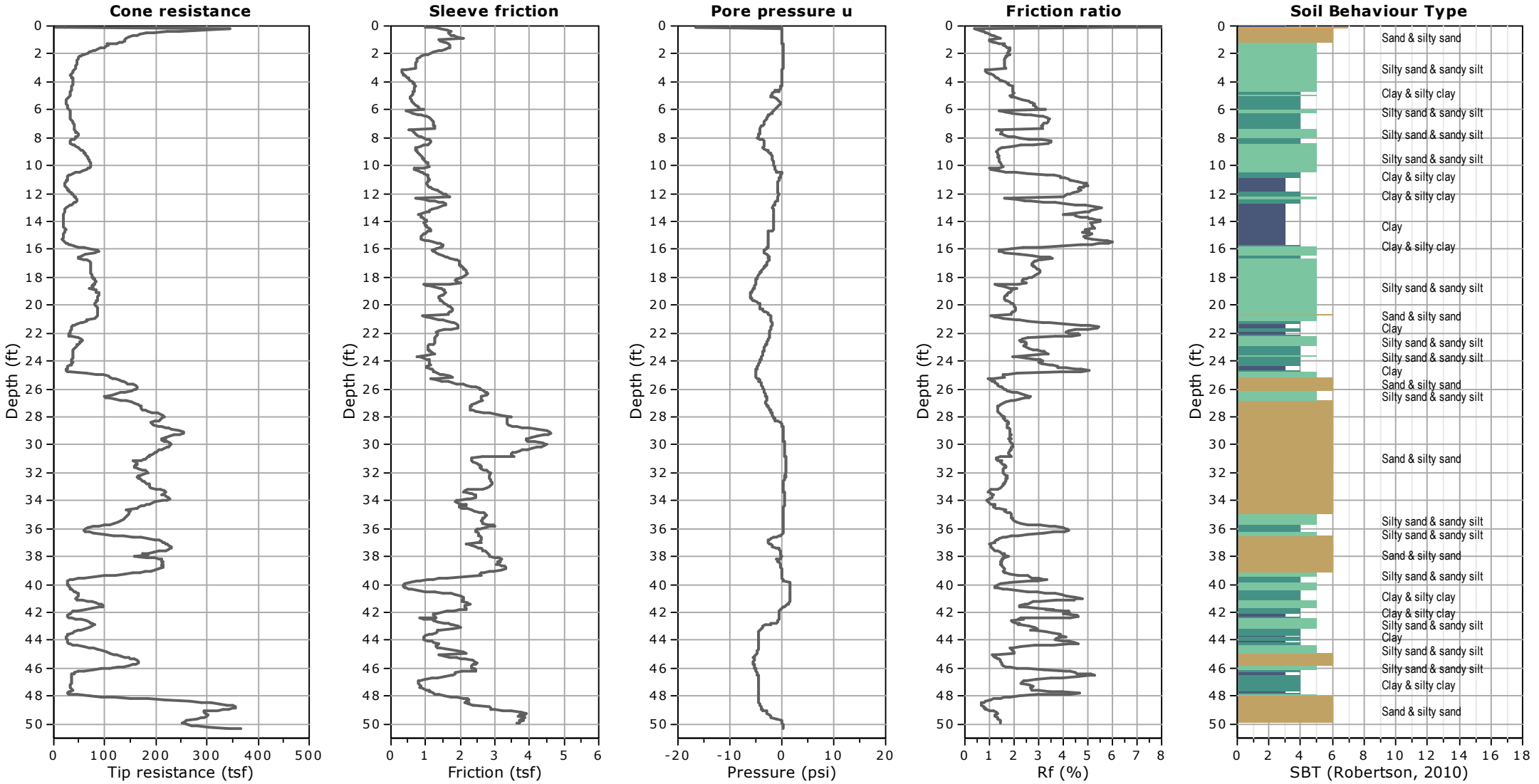
CPT-1
Total depth: 50.41 ft, Date: 5/4/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical**
Location: **9300 Hall Rd, Downey, CA**

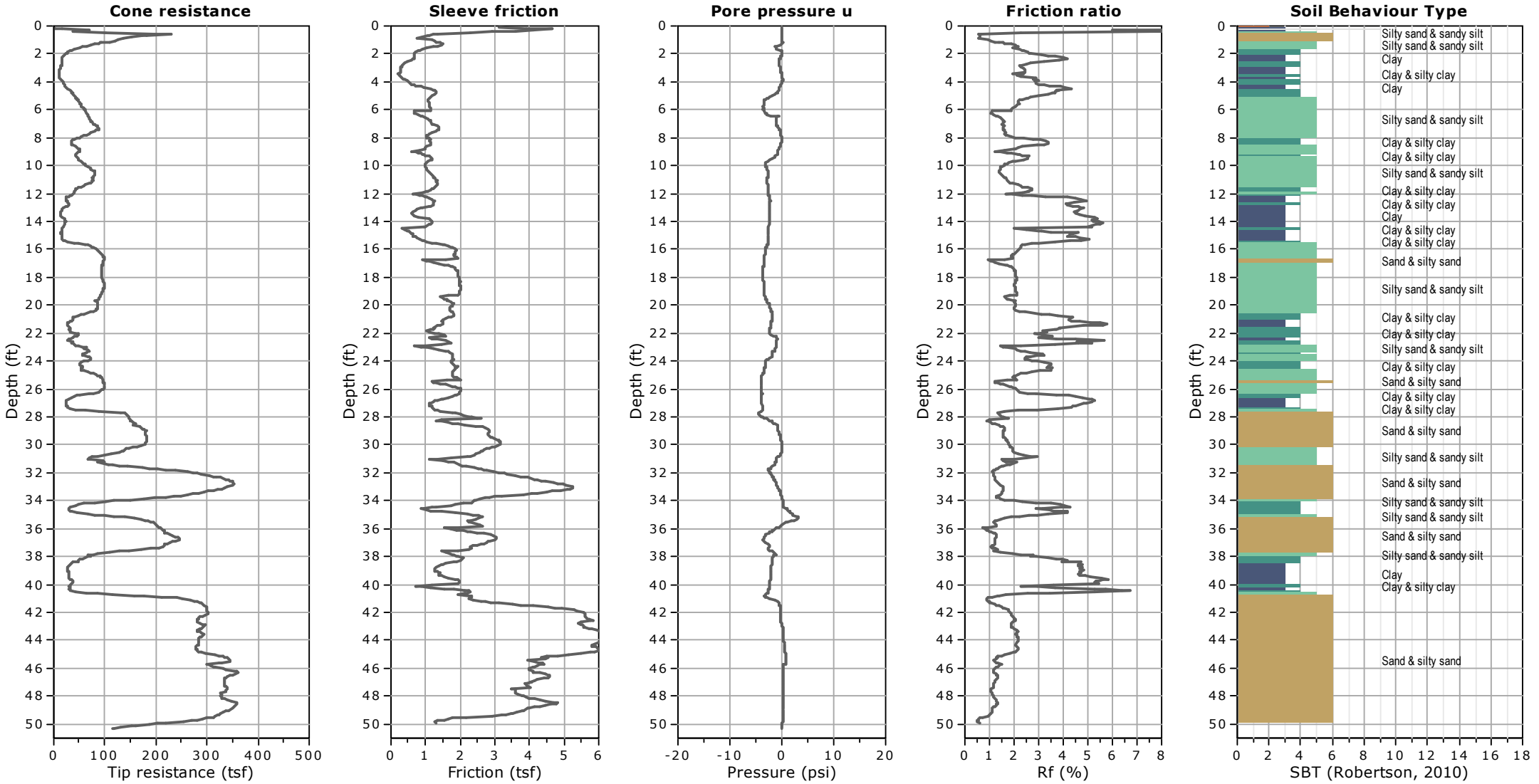
CPT-2
Total depth: 50.34 ft, Date: 5/4/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical**
Location: **9300 Hall Rd, Downey, CA**

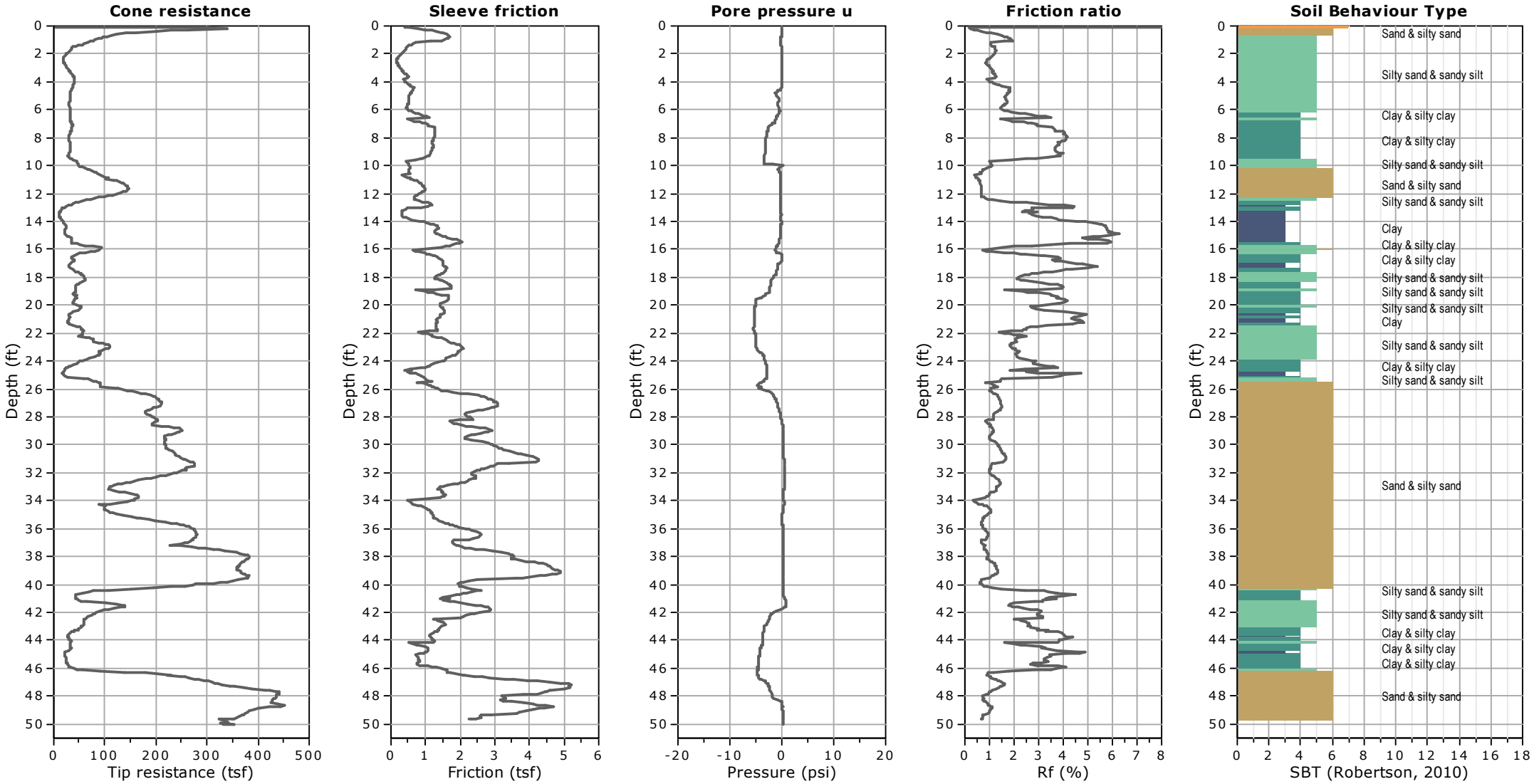
CPT-3
Total depth: 50.35 ft, Date: 5/4/2021



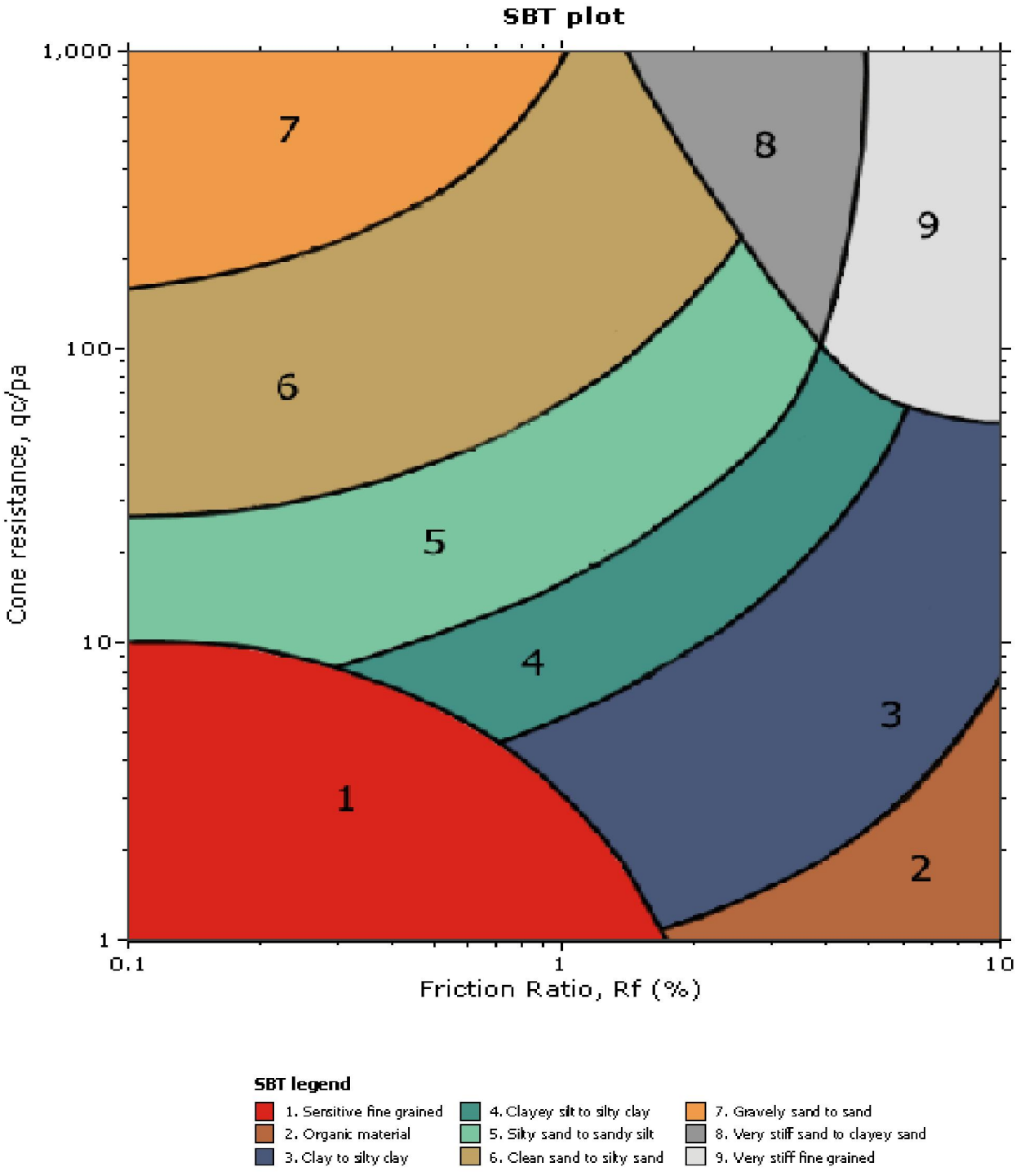
Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical**
Location: **9300 Hall Rd, Downey, CA**

CPT-4
Total depth: 50.07 ft, Date: 5/4/2021



Kehoe Testing & Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com



APPENDIX G

TABLE OF CONTENTS

CPT-1 results
Summary data report 1
Vertical settlements summary report 2
Vertical settlements data report 3

CPT-2 results
Summary data report 10
Vertical settlements summary report 11
Vertical settlements data report 12

CPT-3 results
Summary data report 19
Vertical settlements summary report 20
Vertical settlements data report 21

CPT-4 results
Summary data report 28
Vertical settlements summary report 29
Vertical settlements data report 30

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

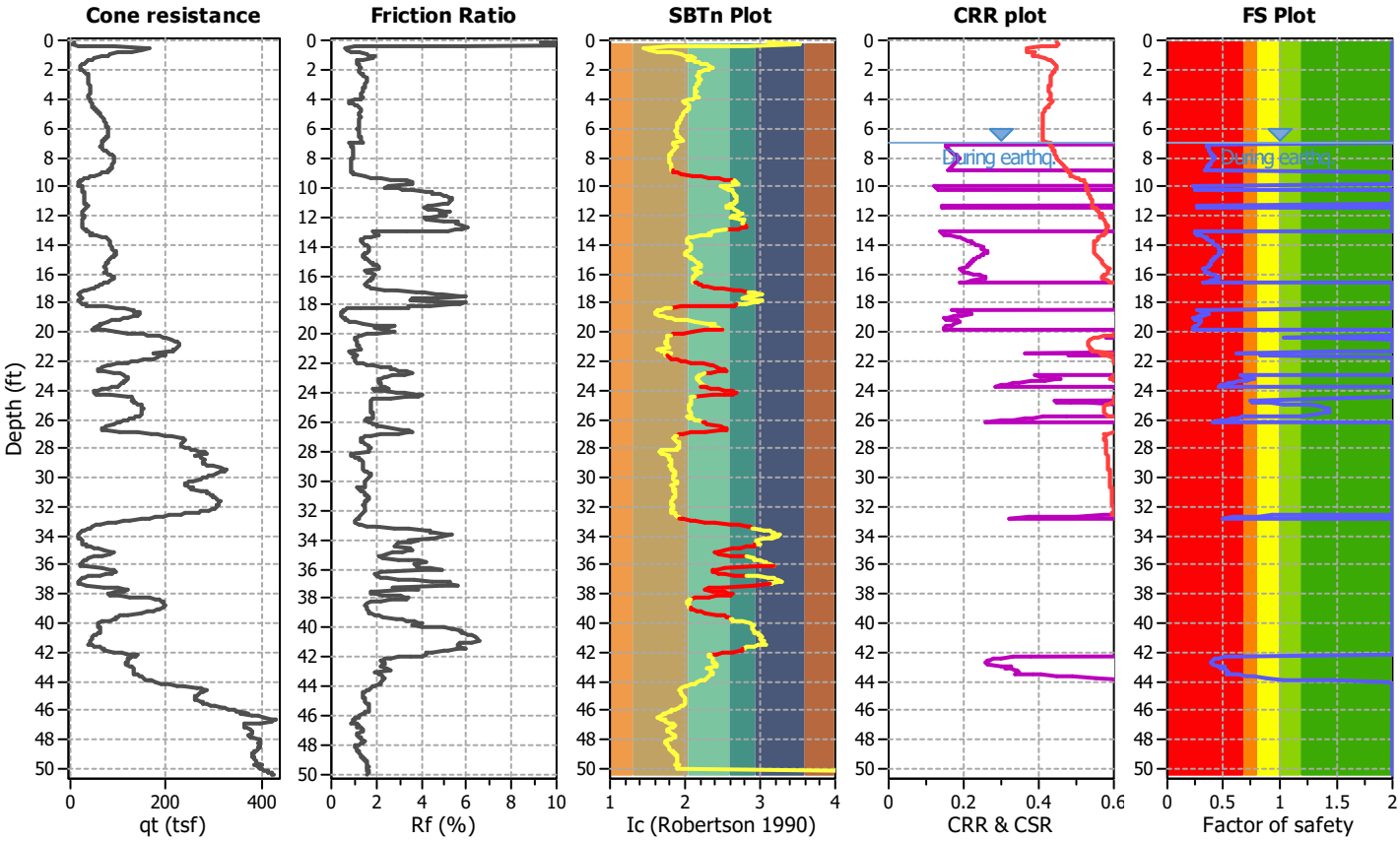
LIQUEFACTION ANALYSIS REPORT

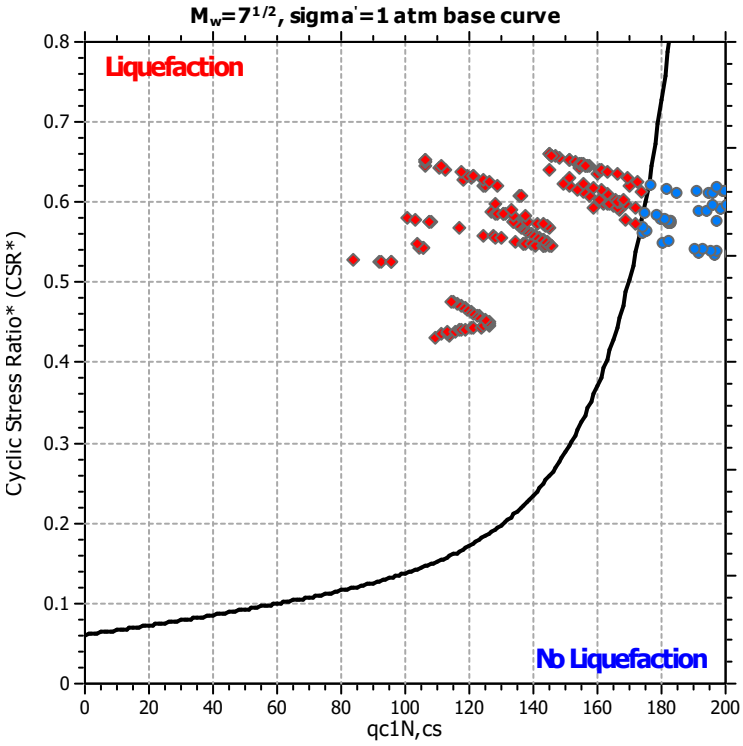
Project title : Southern California Geotechnical **Location : 9300 Hall Rd, Downey, CA**

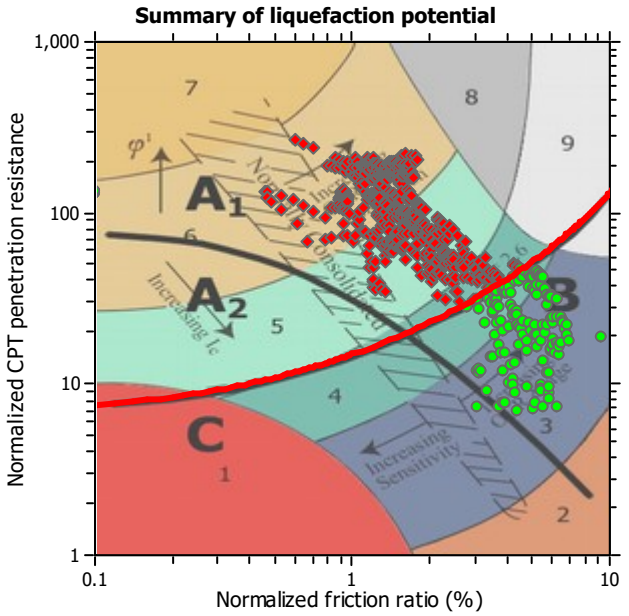
CPT file : CPT-1

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	80.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	7.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	1	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.88	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.79	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

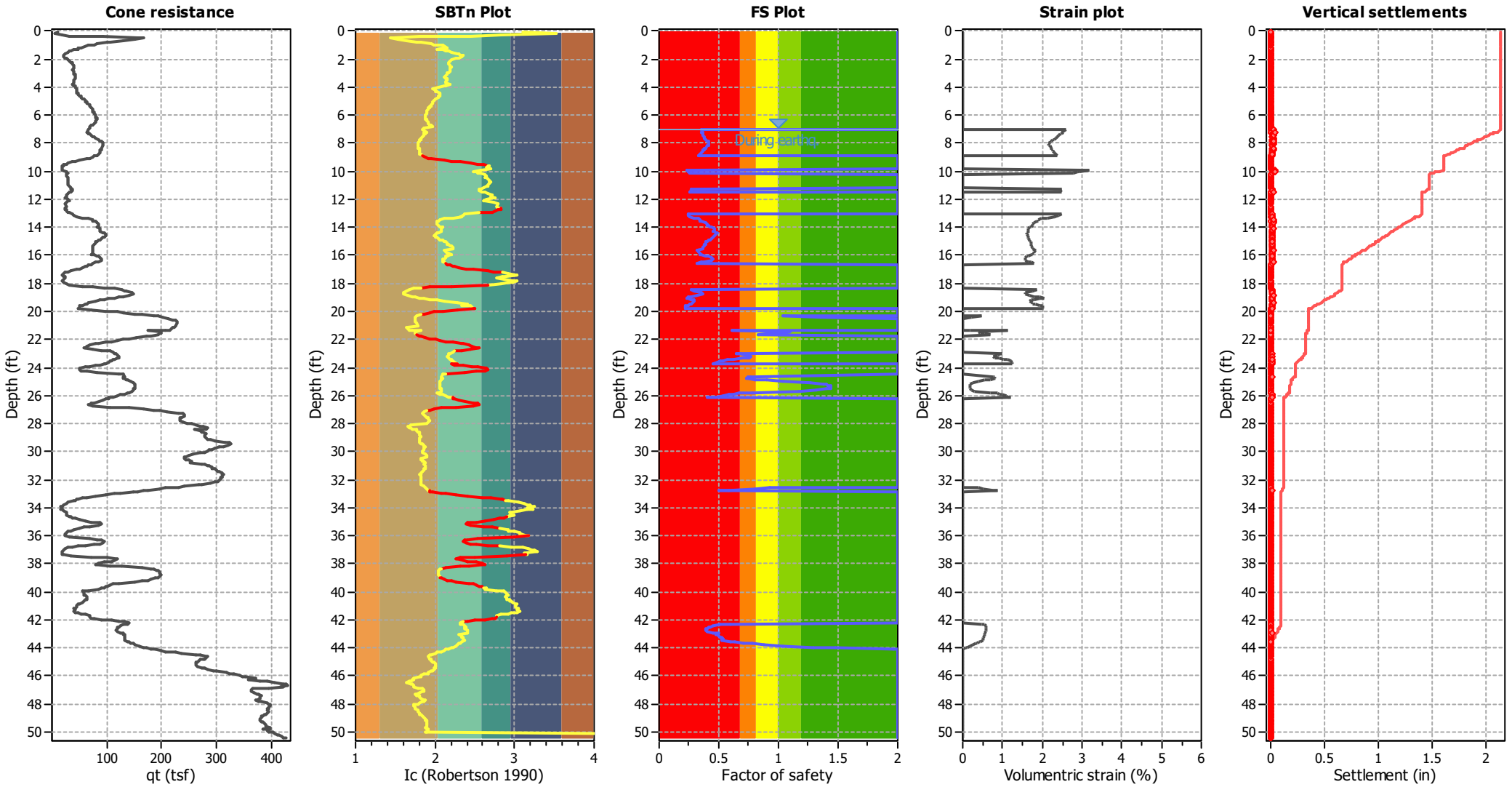






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
7.07	109.14	0.35	2.58	0.88	0.02	7.21	113.52	0.37	2.47	0.88	0.04
7.23	111.48	0.36	2.52	0.88	0.00	7.30	112.94	0.36	2.48	0.88	0.02
7.37	113.39	0.36	2.47	0.88	0.02	7.46	115.84	0.37	2.41	0.87	0.03
7.50	116.58	0.37	2.39	0.87	0.01	7.55	117.23	0.38	2.37	0.87	0.01
7.64	118.89	0.38	2.33	0.87	0.02	7.72	120.62	0.39	2.29	0.87	0.02
7.75	121.41	0.39	2.28	0.87	0.01	7.84	123.67	0.41	2.23	0.87	0.03
7.90	124.57	0.41	2.21	0.87	0.01	7.99	126.03	0.42	2.18	0.86	0.02
8.03	126.48	0.42	2.17	0.86	0.01	8.11	126.16	0.41	2.17	0.86	0.02
8.16	125.72	0.41	2.18	0.86	0.01	8.22	125.11	0.41	2.18	0.86	0.01
8.34	123.26	0.39	2.21	0.86	0.03	8.39	122.24	0.38	2.23	0.86	0.01
8.47	121.36	0.38	2.25	0.86	0.02	8.51	120.48	0.37	2.26	0.86	0.01
8.58	119.59	0.37	2.28	0.85	0.02	8.65	118.54	0.36	2.30	0.85	0.02
8.69	117.66	0.35	2.31	0.85	0.01	8.76	116.55	0.35	2.33	0.85	0.02
8.82	115.14	0.34	2.36	0.85	0.02	8.87	114.36	0.34	2.37	0.85	0.01
8.94	113.66	2.00	0.00	0.85	0.00	9.00	113.60	2.00	0.00	0.85	0.00
9.06	114.43	2.00	0.00	0.85	0.00	9.13	116.42	2.00	0.00	0.85	0.00
9.23	116.40	2.00	0.00	0.84	0.00	9.30	112.03	2.00	0.00	0.84	0.00
9.35	105.82	2.00	0.00	0.84	0.00	9.41	99.13	2.00	0.00	0.84	0.00
9.48	93.40	2.00	0.00	0.84	0.00	9.53	29.81	2.00	0.00	0.84	0.00
9.58	26.60	2.00	0.00	0.84	0.00	9.66	24.46	2.00	0.00	0.84	0.00
9.71	26.32	2.00	0.00	0.84	0.00	9.78	23.69	2.00	0.00	0.83	0.00
9.89	83.98	0.23	3.18	0.83	0.04	10.01	91.57	0.24	2.92	0.83	0.04
10.07	92.53	0.24	2.88	0.83	0.02	10.13	95.72	0.25	2.78	0.83	0.02
10.18	95.61	0.25	2.78	0.83	0.02	10.27	34.01	2.00	0.00	0.83	0.00
10.32	34.37	2.00	0.00	0.83	0.00	10.41	35.47	2.00	0.00	0.82	0.00
10.46	35.94	2.00	0.00	0.82	0.00	10.52	35.84	2.00	0.00	0.82	0.00
10.58	35.49	2.00	0.00	0.82	0.00	10.67	35.11	2.00	0.00	0.82	0.00
10.75	34.98	2.00	0.00	0.82	0.00	10.79	34.91	2.00	0.00	0.82	0.00
10.85	35.50	2.00	0.00	0.82	0.00	10.91	36.15	2.00	0.00	0.82	0.00
10.98	36.83	2.00	0.00	0.81	0.00	11.04	37.93	2.00	0.00	0.81	0.00
11.11	38.69	2.00	0.00	0.81	0.00	11.23	40.02	2.00	0.00	0.81	0.00
11.28	104.48	0.26	2.48	0.81	0.02	11.33	105.76	0.27	2.45	0.81	0.01
11.39	105.53	0.27	2.45	0.81	0.02	11.46	103.70	0.26	2.49	0.81	0.02
11.51	38.69	2.00	0.00	0.81	0.00	11.58	36.08	2.00	0.00	0.80	0.00
11.64	36.00	2.00	0.00	0.80	0.00	11.69	32.13	2.00	0.00	0.80	0.00
11.81	31.65	2.00	0.00	0.80	0.00	11.88	28.63	2.00	0.00	0.80	0.00
11.95	31.14	2.00	0.00	0.80	0.00	12.00	34.92	2.00	0.00	0.80	0.00
12.07	36.53	2.00	0.00	0.80	0.00	12.12	35.29	2.00	0.00	0.79	0.00
12.25	30.31	2.00	0.00	0.79	0.00	12.30	28.22	2.00	0.00	0.79	0.00
12.48	29.39	2.00	0.00	0.79	0.00	12.60	28.50	2.00	0.00	0.79	0.00
12.66	27.60	2.00	0.00	0.79	0.00	12.73	27.93	2.00	0.00	0.78	0.00
12.78	29.33	2.00	0.00	0.78	0.00	12.84	31.45	2.00	0.00	0.78	0.00
12.91	34.07	2.00	0.00	0.78	0.00	12.96	98.09	2.00	0.00	0.78	0.00
13.03	97.52	2.00	0.00	0.78	0.00	13.09	100.48	0.24	2.49	0.78	0.02
13.14	103.23	0.25	2.42	0.78	0.02	13.22	107.58	0.26	2.31	0.78	0.02
13.26	107.91	0.26	2.30	0.78	0.01	13.28	107.46	0.26	2.31	0.77	0.00
13.34	117.03	0.29	2.11	0.77	0.02	13.40	124.60	0.33	1.97	0.77	0.02
13.50	127.56	0.34	1.92	0.77	0.02	13.53	128.15	0.35	1.91	0.77	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
13.62	130.09	0.36	1.87	0.77	0.02	13.72	134.35	0.38	1.80	0.77	0.02
13.78	136.70	0.40	1.77	0.77	0.01	13.84	137.13	0.41	1.76	0.77	0.01
13.90	137.68	0.41	1.75	0.76	0.01	13.96	139.14	0.42	1.72	0.76	0.01
14.02	140.83	0.44	1.70	0.76	0.01	14.14	143.34	0.46	1.66	0.76	0.02
14.21	143.42	0.46	1.66	0.76	0.02	14.27	143.19	0.46	1.66	0.76	0.01
14.32	143.72	0.46	1.65	0.76	0.01	14.39	144.97	0.47	1.63	0.76	0.01
14.44	145.80	0.48	1.62	0.76	0.01	14.51	145.68	0.48	1.62	0.75	0.01
14.58	144.21	0.46	1.63	0.75	0.01	14.62	143.74	0.46	1.64	0.75	0.01
14.69	143.23	0.45	1.64	0.75	0.01	14.75	143.05	0.45	1.64	0.75	0.01
14.81	142.14	0.44	1.65	0.75	0.01	14.89	140.85	0.43	1.67	0.75	0.01
14.93	139.54	0.41	1.68	0.75	0.01	15.01	138.35	0.40	1.69	0.75	0.02
15.06	137.43	0.40	1.71	0.74	0.01	15.12	136.82	0.39	1.71	0.74	0.01
15.19	136.43	0.39	1.71	0.74	0.01	15.24	135.78	0.38	1.72	0.74	0.01
15.31	135.37	0.38	1.72	0.74	0.01	15.37	134.71	0.37	1.73	0.74	0.01
15.43	134.05	0.37	1.74	0.74	0.01	15.50	133.71	0.36	1.74	0.74	0.01
15.62	126.60	0.32	1.84	0.74	0.03	15.68	127.85	0.33	1.82	0.73	0.01
15.73	129.00	0.33	1.80	0.73	0.01	15.80	130.37	0.34	1.78	0.73	0.02
15.85	131.14	0.34	1.76	0.73	0.01	15.91	130.82	0.34	1.77	0.73	0.01
15.95	133.61	0.36	1.72	0.73	0.01	16.05	138.35	0.39	1.65	0.73	0.02
16.10	141.24	0.42	1.61	0.73	0.01	16.17	143.69	0.44	1.58	0.73	0.01
16.22	144.82	0.45	1.57	0.73	0.01	16.28	144.63	0.45	1.57	0.72	0.01
16.35	142.98	0.43	1.58	0.72	0.01	16.47	137.40	0.38	1.65	0.72	0.03
16.52	132.83	0.35	1.71	0.72	0.01	16.57	127.86	0.32	1.78	0.72	0.01
16.64	123.50	2.00	0.00	0.72	0.00	16.70	120.49	2.00	0.00	0.72	0.00
16.76	118.56	2.00	0.00	0.72	0.00	16.83	116.48	2.00	0.00	0.71	0.00
16.88	113.65	2.00	0.00	0.71	0.00	16.94	110.99	2.00	0.00	0.71	0.00
17.01	106.57	2.00	0.00	0.71	0.00	17.12	33.98	2.00	0.00	0.71	0.00
17.19	28.16	2.00	0.00	0.71	0.00	17.23	23.00	2.00	0.00	0.71	0.00
17.30	19.94	2.00	0.00	0.71	0.00	17.36	17.62	2.00	0.00	0.71	0.00
17.41	17.32	2.00	0.00	0.70	0.00	17.49	21.19	2.00	0.00	0.70	0.00
17.54	22.06	2.00	0.00	0.70	0.00	17.60	23.83	2.00	0.00	0.70	0.00
17.66	23.33	2.00	0.00	0.70	0.00	17.77	17.58	2.00	0.00	0.70	0.00
17.84	17.81	2.00	0.00	0.70	0.00	17.89	19.30	2.00	0.00	0.70	0.00
17.97	21.06	2.00	0.00	0.70	0.00	18.02	24.60	2.00	0.00	0.69	0.00
18.10	30.72	2.00	0.00	0.69	0.00	18.15	30.67	2.00	0.00	0.69	0.00
18.20	107.53	2.00	0.00	0.69	0.00	18.26	98.80	2.00	0.00	0.69	0.00
18.33	94.37	2.00	0.00	0.69	0.00	18.39	105.43	2.00	0.00	0.69	0.00
18.45	118.10	0.27	1.86	0.69	0.01	18.51	124.29	0.29	1.75	0.69	0.01
18.58	125.12	0.30	1.74	0.69	0.02	18.68	135.36	0.35	1.59	0.68	0.02
18.73	136.44	0.36	1.58	0.68	0.01	18.85	128.58	0.31	1.68	0.68	0.02
18.93	120.61	0.27	1.79	0.68	0.02	18.98	112.39	0.24	1.93	0.68	0.01
19.03	106.40	0.23	2.04	0.68	0.01	19.11	110.70	0.24	1.96	0.68	0.02
19.16	119.26	0.27	1.80	0.68	0.01	19.21	124.47	0.29	1.72	0.67	0.01
19.28	126.33	0.30	1.69	0.67	0.02	19.38	121.07	0.27	1.77	0.67	0.02
19.46	120.98	0.27	1.76	0.67	0.02	19.51	117.61	0.26	1.82	0.67	0.01
19.56	111.15	0.24	1.93	0.67	0.01	19.63	106.25	0.22	2.01	0.67	0.02
19.68	106.10	0.22	2.01	0.67	0.01	19.77	106.43	0.22	2.00	0.66	0.02
19.81	106.31	0.22	2.00	0.66	0.01	19.83	105.43	2.00	0.00	0.66	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
19.90	125.41	2.00	0.00	0.66	0.00	19.97	142.26	2.00	0.00	0.66	0.00
20.04	149.31	2.00	0.00	0.66	0.00	20.08	150.26	2.00	0.00	0.66	0.00
20.16	149.14	2.00	0.00	0.66	0.00	20.21	151.33	2.00	0.00	0.66	0.00
20.30	166.36	2.00	0.00	0.66	0.00	20.35	174.08	1.04	0.47	0.66	0.00
20.41	180.52	1.36	0.24	0.65	0.00	20.53	191.94	2.00	0.00	0.65	0.00
20.60	196.86	2.00	0.00	0.65	0.00	20.65	201.59	2.00	0.00	0.65	0.00
20.71	204.49	2.00	0.00	0.65	0.00	20.78	205.33	2.00	0.00	0.65	0.00
20.82	205.26	2.00	0.00	0.65	0.00	20.88	204.18	2.00	0.00	0.65	0.00
21.00	202.07	2.00	0.00	0.64	0.00	21.13	197.43	2.00	0.00	0.64	0.00
21.18	195.38	2.00	0.00	0.64	0.00	21.23	193.10	2.00	0.00	0.64	0.00
21.31	190.32	2.00	0.00	0.64	0.00	21.35	182.80	1.48	0.17	0.64	0.00
21.40	158.99	0.61	1.14	0.64	0.01	21.50	175.92	1.10	0.40	0.64	0.00
21.56	174.43	1.04	0.45	0.63	0.00	21.59	171.86	0.94	0.56	0.63	0.00
21.66	168.62	0.83	0.70	0.63	0.01	21.75	159.09	2.00	0.00	0.63	0.00
21.80	155.48	2.00	0.00	0.63	0.00	21.92	154.08	2.00	0.00	0.63	0.00
21.97	156.87	2.00	0.00	0.63	0.00	22.02	158.70	2.00	0.00	0.63	0.00
22.07	157.07	2.00	0.00	0.63	0.00	22.13	153.70	2.00	0.00	0.62	0.00
22.19	148.73	2.00	0.00	0.62	0.00	22.28	137.33	2.00	0.00	0.62	0.00
22.33	131.84	2.00	0.00	0.62	0.00	22.43	121.93	2.00	0.00	0.62	0.00
22.50	117.54	2.00	0.00	0.62	0.00	22.55	114.63	2.00	0.00	0.62	0.00
22.61	113.70	2.00	0.00	0.62	0.00	22.72	127.83	2.00	0.00	0.61	0.00
22.78	142.71	2.00	0.00	0.61	0.00	22.85	155.29	2.00	0.00	0.61	0.00
22.90	160.17	2.00	0.00	0.61	0.00	22.98	161.75	0.65	0.99	0.61	0.01
23.03	163.24	0.68	0.94	0.61	0.00	23.08	164.93	0.72	0.89	0.61	0.01
23.21	166.88	0.77	0.78	0.61	0.01	23.27	166.31	0.75	0.81	0.61	0.01
23.33	164.05	0.70	0.91	0.60	0.01	23.38	160.64	0.63	1.02	0.60	0.01
23.47	157.49	0.57	1.13	0.60	0.01	23.51	155.55	0.54	1.20	0.60	0.01
23.56	153.81	0.51	1.21	0.60	0.01	23.63	151.44	0.48	1.23	0.60	0.01
23.69	149.35	0.46	1.25	0.60	0.01	23.75	139.64	2.00	0.00	0.60	0.00
23.81	134.66	2.00	0.00	0.60	0.00	23.86	128.71	2.00	0.00	0.60	0.00
23.93	120.74	2.00	0.00	0.59	0.00	23.99	112.89	2.00	0.00	0.59	0.00
24.05	41.41	2.00	0.00	0.59	0.00	24.12	40.09	2.00	0.00	0.59	0.00
24.16	40.05	2.00	0.00	0.59	0.00	24.25	43.87	2.00	0.00	0.59	0.00
24.30	117.49	2.00	0.00	0.59	0.00	24.35	133.07	2.00	0.00	0.59	0.00
24.44	162.29	2.00	0.00	0.59	0.00	24.48	166.55	2.00	0.00	0.59	0.00
24.64	166.99	0.76	0.76	0.58	0.01	24.69	166.14	0.74	0.81	0.58	0.00
24.73	165.82	0.73	0.82	0.58	0.00	24.78	166.45	0.75	0.79	0.58	0.00
24.83	168.66	0.81	0.68	0.58	0.00	24.89	171.84	0.91	0.54	0.58	0.00
24.95	175.25	1.03	0.41	0.58	0.00	25.04	180.10	1.26	0.25	0.58	0.00
25.14	182.05	1.37	0.20	0.57	0.00	25.21	182.50	1.40	0.19	0.57	0.00
25.25	182.76	1.42	0.18	0.57	0.00	25.30	183.06	1.44	0.17	0.57	0.00
25.35	182.87	1.42	0.18	0.57	0.00	25.43	183.03	1.43	0.17	0.57	0.00
25.48	183.11	1.44	0.17	0.57	0.00	25.54	182.50	1.40	0.19	0.57	0.00
25.61	181.27	1.32	0.22	0.57	0.00	25.72	178.54	1.17	0.30	0.56	0.00
25.78	168.01	0.78	0.70	0.56	0.01	25.83	163.28	0.67	0.87	0.56	0.00
25.90	161.31	0.63	0.93	0.56	0.01	25.96	158.98	0.58	1.00	0.56	0.01
26.02	155.70	0.53	1.11	0.56	0.01	26.09	151.32	0.47	1.15	0.56	0.01
26.15	145.15	0.41	1.20	0.56	0.01	26.19	145.25	2.00	0.00	0.56	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
26.25	142.20	2.00	0.00	0.56	0.00	26.32	138.53	2.00	0.00	0.55	0.00
26.50	125.49	2.00	0.00	0.55	0.00	26.54	121.25	2.00	0.00	0.55	0.00
26.61	119.14	2.00	0.00	0.55	0.00	26.67	117.19	2.00	0.00	0.55	0.00
26.78	122.43	2.00	0.00	0.55	0.00	26.84	148.14	2.00	0.00	0.55	0.00
26.89	171.20	2.00	0.00	0.54	0.00	26.95	182.69	2.00	0.00	0.54	0.00
27.02	186.28	2.00	0.00	0.54	0.00	27.07	184.96	2.00	0.00	0.54	0.00
27.13	185.51	2.00	0.00	0.54	0.00	27.25	197.23	2.00	0.00	0.54	0.00
27.31	205.63	2.00	0.00	0.54	0.00	27.37	214.03	2.00	0.00	0.54	0.00
27.43	221.33	2.00	0.00	0.54	0.00	27.56	228.24	2.00	0.00	0.53	0.00
27.60	229.24	2.00	0.00	0.53	0.00	27.68	230.37	2.00	0.00	0.53	0.00
27.78	232.79	2.00	0.00	0.53	0.00	27.90	235.91	2.00	0.00	0.53	0.00
27.96	237.59	2.00	0.00	0.53	0.00	28.04	242.22	2.00	0.00	0.52	0.00
28.08	213.78	2.00	0.00	0.52	0.00	28.17	220.16	2.00	0.00	0.52	0.00
28.21	226.93	2.00	0.00	0.52	0.00	28.28	231.98	2.00	0.00	0.52	0.00
28.34	233.95	2.00	0.00	0.52	0.00	28.39	231.10	2.00	0.00	0.52	0.00
28.44	210.91	2.00	0.00	0.52	0.00	28.49	221.05	2.00	0.00	0.52	0.00
28.57	223.51	2.00	0.00	0.52	0.00	28.61	226.04	2.00	0.00	0.52	0.00
28.71	231.83	2.00	0.00	0.51	0.00	28.75	233.12	2.00	0.00	0.51	0.00
28.86	232.39	2.00	0.00	0.51	0.00	28.93	231.98	2.00	0.00	0.51	0.00
28.97	232.02	2.00	0.00	0.51	0.00	29.05	232.60	2.00	0.00	0.51	0.00
29.10	235.23	2.00	0.00	0.51	0.00	29.15	238.95	2.00	0.00	0.51	0.00
29.20	246.29	2.00	0.00	0.51	0.00	29.33	254.00	2.00	0.00	0.50	0.00
29.37	254.00	2.00	0.00	0.50	0.00	29.42	254.00	2.00	0.00	0.50	0.00
29.50	254.00	2.00	0.00	0.50	0.00	29.54	254.00	2.00	0.00	0.50	0.00
29.62	254.00	2.00	0.00	0.50	0.00	29.68	254.00	2.00	0.00	0.50	0.00
29.80	254.00	2.00	0.00	0.49	0.00	29.85	254.00	2.00	0.00	0.49	0.00
29.90	251.32	2.00	0.00	0.49	0.00	29.96	245.10	2.00	0.00	0.49	0.00
30.02	238.39	2.00	0.00	0.49	0.00	30.09	233.15	2.00	0.00	0.49	0.00
30.20	228.71	2.00	0.00	0.49	0.00	30.28	225.92	2.00	0.00	0.49	0.00
30.33	223.99	2.00	0.00	0.49	0.00	30.39	219.43	2.00	0.00	0.48	0.00
30.46	191.74	2.00	0.00	0.48	0.00	30.51	194.26	2.00	0.00	0.48	0.00
30.56	198.76	2.00	0.00	0.48	0.00	30.64	206.23	2.00	0.00	0.48	0.00
30.68	211.69	2.00	0.00	0.48	0.00	30.74	217.50	2.00	0.00	0.48	0.00
30.78	223.35	2.00	0.00	0.48	0.00	30.87	234.40	2.00	0.00	0.48	0.00
30.91	240.83	2.00	0.00	0.48	0.00	30.99	252.27	2.00	0.00	0.47	0.00
31.04	254.00	2.00	0.00	0.47	0.00	31.13	254.00	2.00	0.00	0.47	0.00
31.17	254.00	2.00	0.00	0.47	0.00	31.26	254.00	2.00	0.00	0.47	0.00
31.30	254.00	2.00	0.00	0.47	0.00	31.40	254.00	2.00	0.00	0.47	0.00
31.44	254.00	2.00	0.00	0.47	0.00	31.57	254.00	2.00	0.00	0.46	0.00
31.61	254.00	2.00	0.00	0.46	0.00	31.65	254.00	2.00	0.00	0.46	0.00
31.71	254.00	2.00	0.00	0.46	0.00	31.83	254.00	2.00	0.00	0.46	0.00
31.87	254.00	2.00	0.00	0.46	0.00	31.92	254.00	2.00	0.00	0.46	0.00
31.97	254.00	2.00	0.00	0.46	0.00	32.03	254.00	2.00	0.00	0.46	0.00
32.10	251.52	2.00	0.00	0.46	0.00	32.18	243.28	2.00	0.00	0.45	0.00
32.25	232.85	2.00	0.00	0.45	0.00	32.32	221.60	2.00	0.00	0.45	0.00
32.36	215.24	2.00	0.00	0.45	0.00	32.48	200.65	2.00	0.00	0.45	0.00
32.51	196.05	2.00	0.00	0.45	0.00	32.59	173.65	0.93	0.39	0.45	0.00
32.63	169.75	0.81	0.52	0.45	0.00	32.72	160.09	0.59	0.77	0.45	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
32.77	154.36	0.50	0.89	0.44	0.01	32.84	148.47	2.00	0.00	0.44	0.00
32.88	146.10	2.00	0.00	0.44	0.00	32.94	142.37	2.00	0.00	0.44	0.00
33.02	138.05	2.00	0.00	0.44	0.00	33.09	129.82	2.00	0.00	0.44	0.00
33.15	119.00	2.00	0.00	0.44	0.00	33.24	107.22	2.00	0.00	0.44	0.00
33.29	38.26	2.00	0.00	0.44	0.00	33.37	31.52	2.00	0.00	0.43	0.00
33.41	30.22	2.00	0.00	0.43	0.00	33.48	28.09	2.00	0.00	0.43	0.00
33.53	25.86	2.00	0.00	0.43	0.00	33.62	19.95	2.00	0.00	0.43	0.00
33.68	17.08	2.00	0.00	0.43	0.00	33.77	14.49	2.00	0.00	0.43	0.00
33.80	13.34	2.00	0.00	0.43	0.00	33.90	11.68	2.00	0.00	0.43	0.00
33.95	10.73	2.00	0.00	0.42	0.00	34.03	11.65	2.00	0.00	0.42	0.00
34.08	10.46	2.00	0.00	0.42	0.00	34.13	11.64	2.00	0.00	0.42	0.00
34.20	13.50	2.00	0.00	0.42	0.00	34.30	17.16	2.00	0.00	0.42	0.00
34.34	18.04	2.00	0.00	0.42	0.00	34.39	17.64	2.00	0.00	0.42	0.00
34.49	17.49	2.00	0.00	0.42	0.00	34.56	17.47	2.00	0.00	0.41	0.00
34.61	21.24	2.00	0.00	0.41	0.00	34.66	22.46	2.00	0.00	0.41	0.00
34.71	24.98	2.00	0.00	0.41	0.00	34.78	28.30	2.00	0.00	0.41	0.00
34.87	33.05	2.00	0.00	0.41	0.00	34.91	40.00	2.00	0.00	0.41	0.00
35.00	112.23	2.00	0.00	0.41	0.00	35.09	123.92	2.00	0.00	0.41	0.00
35.13	126.74	2.00	0.00	0.40	0.00	35.18	127.31	2.00	0.00	0.40	0.00
35.27	122.33	2.00	0.00	0.40	0.00	35.35	45.55	2.00	0.00	0.40	0.00
35.40	38.41	2.00	0.00	0.40	0.00	35.46	32.25	2.00	0.00	0.40	0.00
35.57	25.04	2.00	0.00	0.40	0.00	35.66	22.81	2.00	0.00	0.40	0.00
35.70	19.23	2.00	0.00	0.39	0.00	35.79	16.12	2.00	0.00	0.39	0.00
35.85	15.48	2.00	0.00	0.39	0.00	35.92	15.10	2.00	0.00	0.39	0.00
35.97	14.53	2.00	0.00	0.39	0.00	36.03	14.33	2.00	0.00	0.39	0.00
36.10	19.93	2.00	0.00	0.39	0.00	36.22	107.88	2.00	0.00	0.39	0.00
36.27	119.05	2.00	0.00	0.39	0.00	36.33	125.30	2.00	0.00	0.38	0.00
36.45	129.24	2.00	0.00	0.38	0.00	36.51	127.50	2.00	0.00	0.38	0.00
36.58	122.88	2.00	0.00	0.38	0.00	36.63	114.91	2.00	0.00	0.38	0.00
36.69	40.34	2.00	0.00	0.38	0.00	36.76	31.02	2.00	0.00	0.38	0.00
36.81	23.62	2.00	0.00	0.38	0.00	36.87	17.89	2.00	0.00	0.38	0.00
36.93	14.79	2.00	0.00	0.37	0.00	36.99	13.75	2.00	0.00	0.37	0.00
37.05	12.58	2.00	0.00	0.37	0.00	37.11	11.67	2.00	0.00	0.37	0.00
37.17	11.64	2.00	0.00	0.37	0.00	37.24	11.62	2.00	0.00	0.37	0.00
37.29	11.58	2.00	0.00	0.37	0.00	37.35	13.73	2.00	0.00	0.37	0.00
37.42	21.76	2.00	0.00	0.37	0.00	37.51	110.35	2.00	0.00	0.36	0.00
37.57	131.30	2.00	0.00	0.36	0.00	37.64	142.68	2.00	0.00	0.36	0.00
37.69	147.81	2.00	0.00	0.36	0.00	37.77	145.27	2.00	0.00	0.36	0.00
37.80	141.80	2.00	0.00	0.36	0.00	37.86	131.99	2.00	0.00	0.36	0.00
37.95	123.29	2.00	0.00	0.36	0.00	38.01	52.12	2.00	0.00	0.36	0.00
38.08	121.21	2.00	0.00	0.35	0.00	38.15	139.40	2.00	0.00	0.35	0.00
38.20	155.28	2.00	0.00	0.35	0.00	38.26	181.29	2.00	0.00	0.35	0.00
38.32	189.36	2.00	0.00	0.35	0.00	38.40	191.88	2.00	0.00	0.35	0.00
38.48	194.84	2.00	0.00	0.35	0.00	38.52	196.31	2.00	0.00	0.35	0.00
38.61	199.30	2.00	0.00	0.35	0.00	38.67	200.20	2.00	0.00	0.34	0.00
38.73	201.20	2.00	0.00	0.34	0.00	38.78	202.39	2.00	0.00	0.34	0.00
38.91	201.85	2.00	0.00	0.34	0.00	38.96	200.13	2.00	0.00	0.34	0.00
39.04	197.42	2.00	0.00	0.34	0.00	39.09	194.18	2.00	0.00	0.34	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
39.16	190.96	2.00	0.00	0.34	0.00	39.22	185.09	2.00	0.00	0.34	0.00
39.27	176.37	2.00	0.00	0.33	0.00	39.40	153.90	2.00	0.00	0.33	0.00
39.45	145.35	2.00	0.00	0.33	0.00	39.50	140.03	2.00	0.00	0.33	0.00
39.57	136.96	2.00	0.00	0.33	0.00	39.62	133.82	2.00	0.00	0.33	0.00
39.67	61.91	2.00	0.00	0.33	0.00	39.74	59.29	2.00	0.00	0.33	0.00
39.79	55.11	2.00	0.00	0.33	0.00	39.90	40.98	2.00	0.00	0.32	0.00
39.97	35.40	2.00	0.00	0.32	0.00	40.08	35.71	2.00	0.00	0.32	0.00
40.11	35.70	2.00	0.00	0.32	0.00	40.19	36.02	2.00	0.00	0.32	0.00
40.23	37.92	2.00	0.00	0.32	0.00	40.33	39.58	2.00	0.00	0.32	0.00
40.37	39.82	2.00	0.00	0.32	0.00	40.46	39.71	2.00	0.00	0.31	0.00
40.52	39.36	2.00	0.00	0.31	0.00	40.60	37.87	2.00	0.00	0.31	0.00
40.67	36.75	2.00	0.00	0.31	0.00	40.71	35.14	2.00	0.00	0.31	0.00
40.77	33.47	2.00	0.00	0.31	0.00	40.85	30.64	2.00	0.00	0.31	0.00
40.90	28.87	2.00	0.00	0.31	0.00	40.99	27.97	2.00	0.00	0.31	0.00
41.03	27.82	2.00	0.00	0.30	0.00	41.08	27.25	2.00	0.00	0.30	0.00
41.17	25.32	2.00	0.00	0.30	0.00	41.22	24.08	2.00	0.00	0.30	0.00
41.28	25.40	2.00	0.00	0.30	0.00	41.42	23.59	2.00	0.00	0.30	0.00
41.47	25.46	2.00	0.00	0.30	0.00	41.51	28.63	2.00	0.00	0.30	0.00
41.56	31.41	2.00	0.00	0.30	0.00	41.64	37.92	2.00	0.00	0.29	0.00
41.74	42.12	2.00	0.00	0.29	0.00	41.80	43.31	2.00	0.00	0.29	0.00
41.87	44.13	2.00	0.00	0.29	0.00	41.91	47.49	2.00	0.00	0.29	0.00
41.98	56.96	2.00	0.00	0.29	0.00	42.04	139.08	2.00	0.00	0.29	0.00
42.09	150.92	2.00	0.00	0.29	0.00	42.16	159.29	2.00	0.00	0.29	0.00
42.22	163.57	2.00	0.00	0.28	0.00	42.29	160.75	0.59	0.48	0.28	0.00
42.34	155.61	0.51	0.56	0.28	0.00	42.40	151.35	0.46	0.58	0.28	0.00
42.47	148.38	0.42	0.59	0.28	0.01	42.52	146.86	0.41	0.59	0.28	0.00
42.60	145.56	0.40	0.60	0.28	0.01	42.66	144.98	0.39	0.60	0.28	0.00
42.74	144.75	0.39	0.60	0.28	0.01	42.78	145.50	0.40	0.59	0.27	0.00
42.92	151.29	0.46	0.56	0.27	0.01	42.97	155.25	0.51	0.54	0.27	0.00
43.04	153.07	0.48	0.55	0.27	0.00	43.09	154.09	0.49	0.54	0.27	0.00
43.17	155.21	0.51	0.54	0.27	0.00	43.23	156.13	0.52	0.53	0.27	0.00
43.28	156.93	0.53	0.51	0.27	0.00	43.35	157.36	0.54	0.50	0.27	0.00
43.40	156.69	0.53	0.51	0.26	0.00	43.45	156.30	0.52	0.52	0.26	0.00
43.54	161.31	0.60	0.43	0.26	0.00	43.58	162.90	0.63	0.41	0.26	0.00
43.64	166.18	0.70	0.36	0.26	0.00	43.71	169.26	0.78	0.32	0.26	0.00
43.80	172.66	0.88	0.25	0.26	0.00	43.86	176.76	1.03	0.18	0.26	0.00
43.93	182.11	1.29	0.11	0.26	0.00	43.97	185.21	1.48	0.07	0.25	0.00
44.04	191.32	1.96	0.00	0.25	0.00	44.12	197.50	2.00	0.00	0.25	0.00
44.20	204.15	2.00	0.00	0.25	0.00	44.24	208.35	2.00	0.00	0.25	0.00
44.32	217.85	2.00	0.00	0.25	0.00	44.36	222.71	2.00	0.00	0.25	0.00
44.46	234.27	2.00	0.00	0.25	0.00	44.50	238.19	2.00	0.00	0.25	0.00
44.59	241.78	2.00	0.00	0.24	0.00	44.63	242.39	2.00	0.00	0.24	0.00
44.76	245.13	2.00	0.00	0.24	0.00	44.79	245.41	2.00	0.00	0.24	0.00
44.85	243.12	2.00	0.00	0.24	0.00	44.89	242.32	2.00	0.00	0.24	0.00
44.98	242.16	2.00	0.00	0.24	0.00	45.03	242.37	2.00	0.00	0.24	0.00
45.14	248.22	2.00	0.00	0.23	0.00	45.20	250.55	2.00	0.00	0.23	0.00
45.24	251.29	2.00	0.00	0.23	0.00	45.28	252.76	2.00	0.00	0.23	0.00
45.38	254.00	2.00	0.00	0.23	0.00	45.46	254.00	2.00	0.00	0.23	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
45.48	254.00	2.00	0.00	0.23	0.00	45.56	254.00	2.00	0.00	0.23	0.00
45.65	254.00	2.00	0.00	0.23	0.00	45.69	254.00	2.00	0.00	0.23	0.00
45.77	254.00	2.00	0.00	0.22	0.00	45.82	254.00	2.00	0.00	0.22	0.00
45.90	254.00	2.00	0.00	0.22	0.00	45.99	254.00	2.00	0.00	0.22	0.00
46.04	254.00	2.00	0.00	0.22	0.00	46.09	254.00	2.00	0.00	0.22	0.00
46.19	254.00	2.00	0.00	0.22	0.00	46.22	254.00	2.00	0.00	0.22	0.00
46.27	254.00	2.00	0.00	0.22	0.00	46.33	254.00	2.00	0.00	0.21	0.00
46.41	254.00	2.00	0.00	0.21	0.00	46.48	254.00	2.00	0.00	0.21	0.00
46.56	254.00	2.00	0.00	0.21	0.00	46.61	254.00	2.00	0.00	0.21	0.00
46.67	254.00	2.00	0.00	0.21	0.00	46.74	254.00	2.00	0.00	0.21	0.00
46.79	254.00	2.00	0.00	0.21	0.00	46.87	254.00	2.00	0.00	0.21	0.00
46.93	254.00	2.00	0.00	0.20	0.00	47.01	254.00	2.00	0.00	0.20	0.00
47.05	254.00	2.00	0.00	0.20	0.00	47.14	254.00	2.00	0.00	0.20	0.00
47.18	254.00	2.00	0.00	0.20	0.00	47.27	254.00	2.00	0.00	0.20	0.00
47.31	254.00	2.00	0.00	0.20	0.00	47.41	254.00	2.00	0.00	0.20	0.00
47.45	254.00	2.00	0.00	0.20	0.00	47.53	254.00	2.00	0.00	0.19	0.00
47.57	254.00	2.00	0.00	0.19	0.00	47.71	254.00	2.00	0.00	0.19	0.00
47.76	254.00	2.00	0.00	0.19	0.00	47.80	254.00	2.00	0.00	0.19	0.00
47.84	254.00	2.00	0.00	0.19	0.00	47.93	254.00	2.00	0.00	0.19	0.00
47.97	254.00	2.00	0.00	0.19	0.00	48.06	254.00	2.00	0.00	0.19	0.00
48.11	254.00	2.00	0.00	0.18	0.00	48.20	254.00	2.00	0.00	0.18	0.00
48.26	254.00	2.00	0.00	0.18	0.00	48.31	254.00	2.00	0.00	0.18	0.00
48.37	254.00	2.00	0.00	0.18	0.00	48.45	254.00	2.00	0.00	0.18	0.00
48.50	254.00	2.00	0.00	0.18	0.00	48.57	254.00	2.00	0.00	0.18	0.00
48.64	254.00	2.00	0.00	0.18	0.00	48.72	254.00	2.00	0.00	0.17	0.00
48.76	254.00	2.00	0.00	0.17	0.00	48.85	254.00	2.00	0.00	0.17	0.00
48.90	254.00	2.00	0.00	0.17	0.00	48.99	254.00	2.00	0.00	0.17	0.00
49.03	254.00	2.00	0.00	0.17	0.00	49.12	254.00	2.00	0.00	0.17	0.00
49.16	254.00	2.00	0.00	0.17	0.00	49.25	254.00	2.00	0.00	0.17	0.00
49.29	254.00	2.00	0.00	0.16	0.00	49.42	254.00	2.00	0.00	0.16	0.00
49.44	254.00	2.00	0.00	0.16	0.00	49.49	254.00	2.00	0.00	0.16	0.00
49.56	254.00	2.00	0.00	0.16	0.00	49.69	254.00	2.00	0.00	0.16	0.00
49.78	254.00	2.00	0.00	0.16	0.00	49.82	254.00	2.00	0.00	0.16	0.00
49.91	254.00	2.00	0.00	0.15	0.00	49.96	254.00	2.00	0.00	0.15	0.00
50.03	254.00	2.00	0.00	0.15	0.00	50.08	287.78	2.00	0.00	0.15	0.00
50.17	292.35	2.00	0.00	0.15	0.00	50.21	294.00	2.00	0.00	0.15	0.00
50.31	297.34	2.00	0.00	0.15	0.00	50.37	298.83	2.00	0.00	0.15	0.00
50.41	302.29	2.00	0.00	0.15	0.00						

Total estimated settlement: 2.14

Abbreviations

$Q_{tn,cs}$:	Equivalent dean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

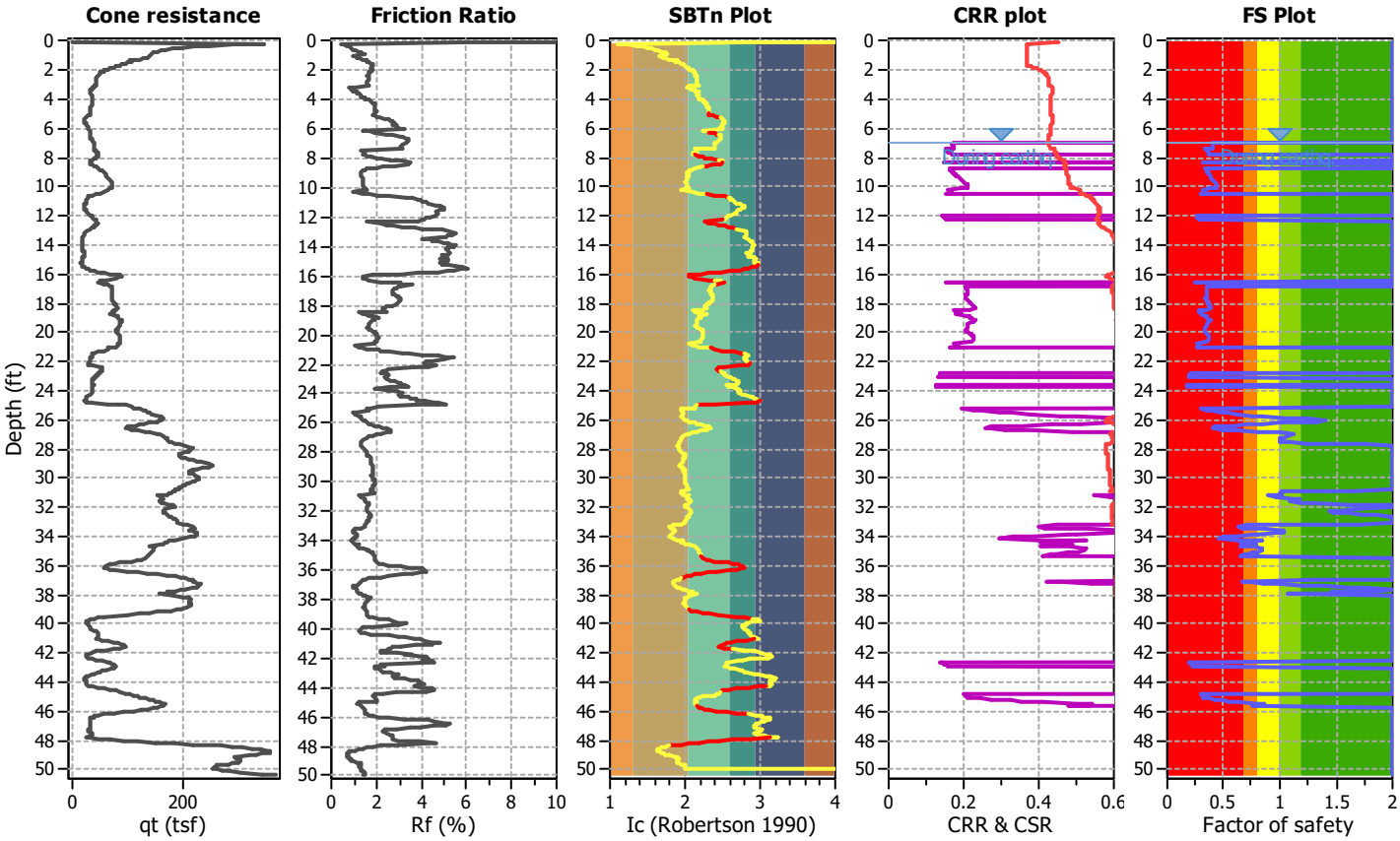
LIQUEFACTION ANALYSIS REPORT

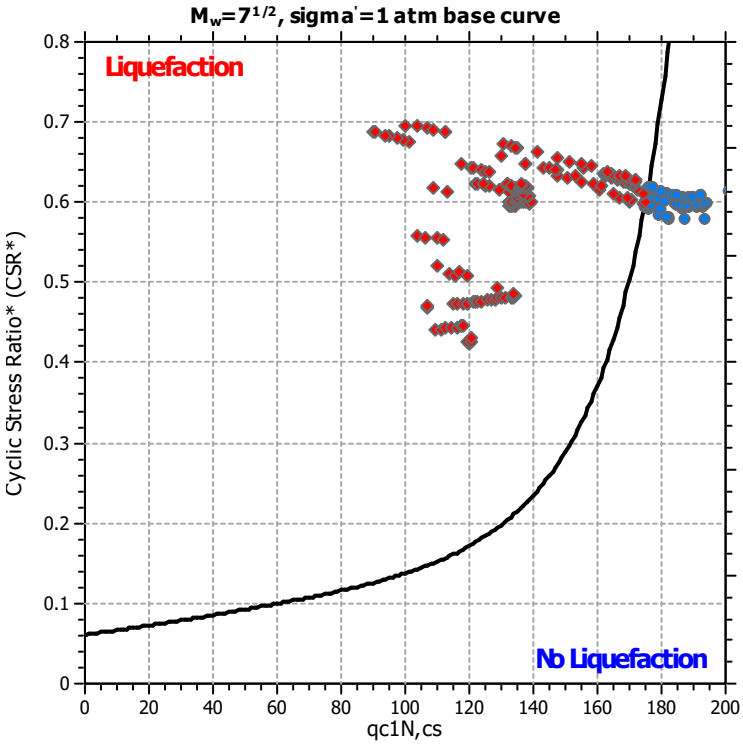
Project title : Southern California Geotechnical **Location : 9300 Hall Rd, Downey, CA**

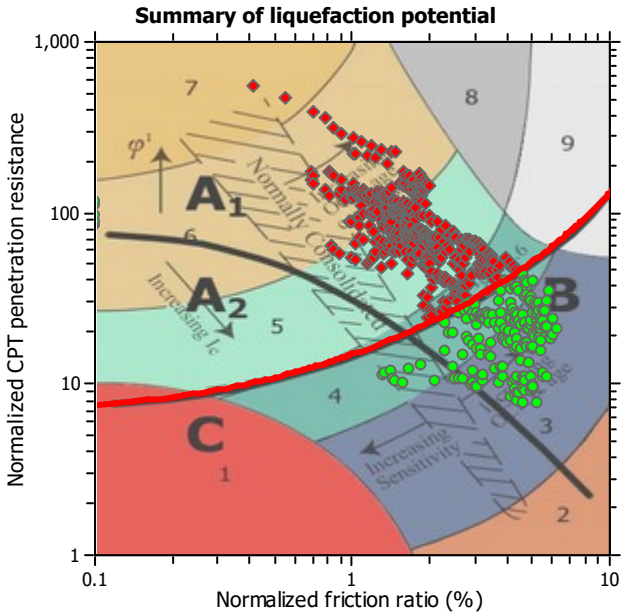
CPT file : CPT-2

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	80.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	7.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	1	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.88	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.79	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

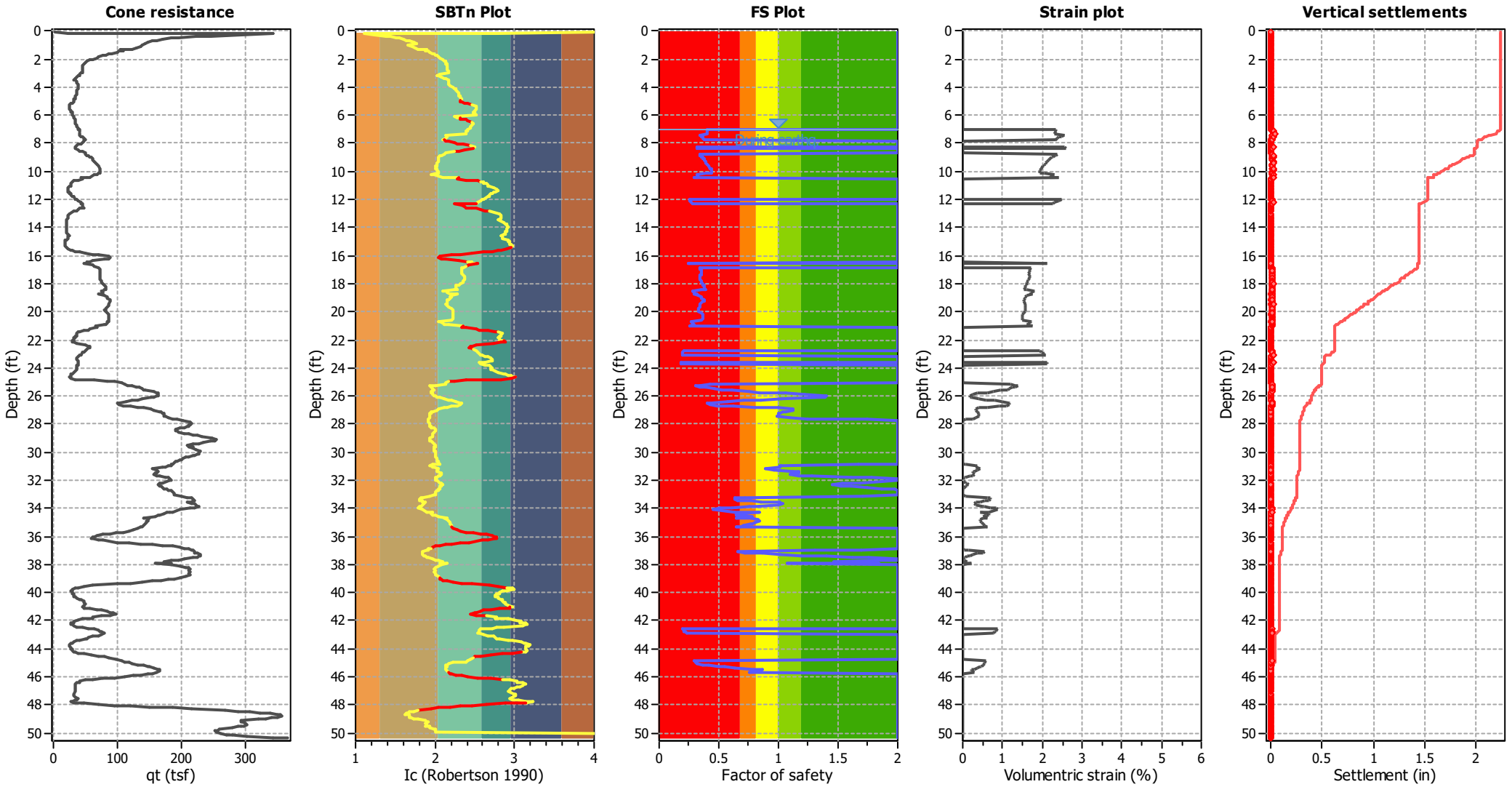






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
7.03	119.94	0.40	2.34	0.88	0.01	7.11	119.62	0.40	2.34	0.88	0.02
7.16	120.44	0.40	2.32	0.88	0.01	7.34	120.86	0.40	2.31	0.88	0.05
7.40	109.12	0.34	2.57	0.87	0.02	7.47	111.06	0.35	2.52	0.87	0.02
7.51	112.70	0.35	2.48	0.87	0.01	7.59	114.58	0.36	2.43	0.87	0.02
7.64	116.23	0.37	2.39	0.87	0.01	7.71	117.56	0.37	2.36	0.87	0.02
7.73	117.53	0.37	2.36	0.87	0.01	7.77	118.07	0.37	2.35	0.87	0.01
7.84	118.76	2.00	0.00	0.87	0.00	7.90	118.45	2.00	0.00	0.87	0.00
7.97	117.66	2.00	0.00	0.86	0.00	8.02	117.05	2.00	0.00	0.86	0.00
8.08	113.86	2.00	0.00	0.86	0.00	8.15	109.65	2.00	0.00	0.86	0.00
8.23	106.88	2.00	0.00	0.86	0.00	8.30	106.83	0.31	2.58	0.86	0.02
8.35	106.67	0.31	2.58	0.86	0.01	8.41	106.59	2.00	0.00	0.86	0.00
8.50	111.46	2.00	0.00	0.86	0.00	8.56	113.41	2.00	0.00	0.85	0.00
8.60	115.25	2.00	0.00	0.85	0.00	8.70	116.47	2.00	0.00	0.85	0.00
8.75	115.25	0.34	2.36	0.85	0.02	8.85	116.52	0.35	2.33	0.85	0.03
8.90	118.16	0.35	2.29	0.85	0.01	8.94	119.21	0.36	2.27	0.85	0.01
9.03	120.94	0.37	2.23	0.85	0.02	9.08	121.86	0.37	2.21	0.85	0.01
9.13	122.71	0.37	2.19	0.85	0.01	9.21	123.68	0.38	2.17	0.84	0.02
9.30	125.38	0.39	2.13	0.84	0.02	9.42	126.88	0.39	2.10	0.84	0.03
9.47	128.22	0.40	2.07	0.84	0.01	9.54	128.97	0.41	2.06	0.84	0.02
9.60	129.85	0.41	2.04	0.84	0.02	9.65	130.99	0.42	2.02	0.84	0.01
9.78	132.96	0.43	1.98	0.83	0.03	9.83	133.51	0.43	1.97	0.83	0.01
9.96	134.15	0.44	1.95	0.83	0.03	10.01	134.05	0.44	1.95	0.83	0.01
10.09	133.95	0.43	1.95	0.83	0.02	10.13	128.48	0.39	2.04	0.83	0.01
10.22	113.95	0.31	2.32	0.83	0.02	10.27	115.93	0.32	2.28	0.83	0.01
10.40	119.24	0.33	2.20	0.82	0.03	10.45	116.77	0.32	2.25	0.82	0.01
10.47	109.80	0.29	2.40	0.82	0.01	10.51	111.51	2.00	0.00	0.82	0.00
10.60	105.28	2.00	0.00	0.82	0.00	10.68	98.51	2.00	0.00	0.82	0.00
10.72	96.78	2.00	0.00	0.82	0.00	10.78	34.20	2.00	0.00	0.82	0.00
10.84	33.44	2.00	0.00	0.82	0.00	10.91	31.98	2.00	0.00	0.82	0.00
10.98	31.43	2.00	0.00	0.81	0.00	11.04	31.00	2.00	0.00	0.81	0.00
11.11	29.81	2.00	0.00	0.81	0.00	11.17	27.49	2.00	0.00	0.81	0.00
11.26	25.59	2.00	0.00	0.81	0.00	11.30	24.98	2.00	0.00	0.81	0.00
11.41	25.20	2.00	0.00	0.81	0.00	11.45	26.38	2.00	0.00	0.81	0.00
11.52	27.72	2.00	0.00	0.80	0.00	11.57	29.41	2.00	0.00	0.80	0.00
11.62	30.33	2.00	0.00	0.80	0.00	11.72	32.14	2.00	0.00	0.80	0.00
11.79	33.34	2.00	0.00	0.80	0.00	11.84	35.09	2.00	0.00	0.80	0.00
11.97	38.94	2.00	0.00	0.80	0.00	12.02	103.51	0.26	2.47	0.80	0.02
12.09	105.98	0.26	2.41	0.80	0.02	12.21	109.82	0.27	2.31	0.79	0.03
12.27	112.16	0.28	2.26	0.79	0.02	12.33	105.67	2.00	0.00	0.79	0.00
12.45	109.87	2.00	0.00	0.79	0.00	12.51	110.91	2.00	0.00	0.79	0.00
12.57	112.99	2.00	0.00	0.79	0.00	12.63	110.29	2.00	0.00	0.79	0.00
12.67	107.43	2.00	0.00	0.79	0.00	12.77	105.50	2.00	0.00	0.78	0.00
12.81	39.08	2.00	0.00	0.78	0.00	12.86	35.29	2.00	0.00	0.78	0.00
13.04	27.21	2.00	0.00	0.78	0.00	13.16	24.80	2.00	0.00	0.78	0.00
13.23	24.23	2.00	0.00	0.78	0.00	13.30	23.74	2.00	0.00	0.77	0.00
13.36	23.59	2.00	0.00	0.77	0.00	13.47	21.95	2.00	0.00	0.77	0.00
13.53	21.27	2.00	0.00	0.77	0.00	13.60	21.01	2.00	0.00	0.77	0.00
13.66	20.55	2.00	0.00	0.77	0.00	13.73	20.09	2.00	0.00	0.77	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
13.76	20.11	2.00	0.00	0.77	0.00	13.80	20.08	2.00	0.00	0.77	0.00
13.86	20.08	2.00	0.00	0.77	0.00	13.95	20.02	2.00	0.00	0.76	0.00
13.98	19.99	2.00	0.00	0.76	0.00	14.08	19.92	2.00	0.00	0.76	0.00
14.13	19.98	2.00	0.00	0.76	0.00	14.20	20.13	2.00	0.00	0.76	0.00
14.25	20.19	2.00	0.00	0.76	0.00	14.33	20.83	2.00	0.00	0.76	0.00
14.38	21.10	2.00	0.00	0.76	0.00	14.46	21.93	2.00	0.00	0.75	0.00
14.51	22.88	2.00	0.00	0.75	0.00	14.60	24.50	2.00	0.00	0.75	0.00
14.64	23.77	2.00	0.00	0.75	0.00	14.73	22.51	2.00	0.00	0.75	0.00
14.77	22.38	2.00	0.00	0.75	0.00	14.86	19.65	2.00	0.00	0.75	0.00
14.90	18.93	2.00	0.00	0.75	0.00	14.99	18.28	2.00	0.00	0.75	0.00
15.03	18.74	2.00	0.00	0.75	0.00	15.12	18.20	2.00	0.00	0.74	0.00
15.17	18.17	2.00	0.00	0.74	0.00	15.25	17.52	2.00	0.00	0.74	0.00
15.35	18.14	2.00	0.00	0.74	0.00	15.40	19.17	2.00	0.00	0.74	0.00
15.47	20.59	2.00	0.00	0.74	0.00	15.52	23.24	2.00	0.00	0.74	0.00
15.58	26.36	2.00	0.00	0.74	0.00	15.65	28.88	2.00	0.00	0.73	0.00
15.71	32.45	2.00	0.00	0.73	0.00	15.78	39.32	2.00	0.00	0.73	0.00
15.83	110.78	2.00	0.00	0.73	0.00	15.89	120.67	2.00	0.00	0.73	0.00
15.96	127.72	2.00	0.00	0.73	0.00	16.08	133.57	2.00	0.00	0.73	0.00
16.14	135.86	2.00	0.00	0.73	0.00	16.20	135.65	2.00	0.00	0.73	0.00
16.27	132.69	2.00	0.00	0.72	0.00	16.38	121.02	2.00	0.00	0.72	0.00
16.45	116.22	2.00	0.00	0.72	0.00	16.50	112.79	2.00	0.00	0.72	0.00
16.52	112.85	0.26	2.04	0.72	0.01	16.55	108.97	0.24	2.12	0.72	0.01
16.61	109.12	2.00	0.00	0.72	0.00	16.71	121.73	2.00	0.00	0.72	0.00
16.75	125.64	2.00	0.00	0.72	0.00	16.83	131.33	2.00	0.00	0.71	0.00
16.87	132.33	0.34	1.70	0.71	0.01	16.96	132.68	0.35	1.70	0.71	0.02
17.00	133.01	0.35	1.69	0.71	0.01	17.09	133.34	0.35	1.68	0.71	0.02
17.17	133.99	0.35	1.67	0.71	0.02	17.22	134.12	0.35	1.67	0.71	0.01
17.27	134.08	0.35	1.66	0.71	0.01	17.36	133.52	0.35	1.67	0.71	0.02
17.41	133.00	0.35	1.67	0.70	0.01	17.46	132.56	0.34	1.68	0.70	0.01
17.55	132.54	0.34	1.67	0.70	0.02	17.62	132.52	0.34	1.67	0.70	0.01
17.66	133.13	0.35	1.66	0.70	0.01	17.75	134.48	0.35	1.64	0.70	0.02
17.86	135.07	0.36	1.63	0.70	0.02	17.98	135.61	0.36	1.62	0.70	0.02
18.02	136.17	0.36	1.61	0.69	0.01	18.09	136.78	0.37	1.60	0.69	0.01
18.15	137.45	0.37	1.59	0.69	0.01	18.20	138.21	0.38	1.57	0.69	0.01
18.28	138.90	0.38	1.56	0.69	0.01	18.39	139.51	0.39	1.55	0.69	0.02
18.45	135.23	0.36	1.60	0.69	0.01	18.50	121.78	0.28	1.79	0.69	0.01
18.57	122.38	0.28	1.78	0.69	0.01	18.63	125.23	0.30	1.73	0.68	0.01
18.69	126.35	0.30	1.72	0.68	0.01	18.77	129.52	0.32	1.67	0.68	0.01
18.79	124.16	0.29	1.74	0.68	0.00	18.85	132.32	0.33	1.63	0.68	0.01
18.90	135.32	0.35	1.58	0.68	0.01	18.98	134.96	0.35	1.58	0.68	0.02
19.04	136.12	0.36	1.57	0.68	0.01	19.13	138.33	0.37	1.54	0.68	0.02
19.17	138.92	0.38	1.53	0.68	0.01	19.25	138.14	0.37	1.53	0.67	0.02
19.30	136.80	0.36	1.55	0.67	0.01	19.43	134.54	0.35	1.57	0.67	0.03
19.47	134.38	0.34	1.57	0.67	0.01	19.50	134.38	0.34	1.57	0.67	0.01
19.58	134.36	0.34	1.57	0.67	0.02	19.65	133.71	0.34	1.57	0.67	0.01
19.70	133.34	0.34	1.58	0.67	0.01	19.78	132.74	0.33	1.58	0.66	0.02
19.85	131.91	0.33	1.59	0.66	0.01	19.89	131.94	0.33	1.59	0.66	0.01
19.96	133.23	0.33	1.57	0.66	0.01	20.05	135.40	0.35	1.54	0.66	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
20.09	136.18	0.35	1.53	0.66	0.01	20.18	137.40	0.36	1.51	0.66	0.02
20.22	137.79	0.36	1.50	0.66	0.01	20.31	138.10	0.37	1.49	0.66	0.02
20.36	138.01	0.37	1.49	0.65	0.01	20.44	137.57	0.36	1.49	0.65	0.02
20.49	137.42	0.36	1.49	0.65	0.01	20.58	136.53	0.35	1.50	0.65	0.02
20.62	136.29	0.35	1.50	0.65	0.01	20.72	120.57	0.27	1.71	0.65	0.02
20.75	121.23	0.27	1.70	0.65	0.01	20.84	123.70	0.28	1.66	0.65	0.02
20.88	124.73	0.29	1.65	0.65	0.01	20.96	126.44	0.29	1.62	0.64	0.01
21.01	117.33	0.26	1.75	0.64	0.01	21.07	121.06	2.00	0.00	0.64	0.00
21.14	118.82	2.00	0.00	0.64	0.00	21.23	112.64	2.00	0.00	0.64	0.00
21.28	109.32	2.00	0.00	0.64	0.00	21.33	39.93	2.00	0.00	0.64	0.00
21.41	35.03	2.00	0.00	0.64	0.00	21.48	32.64	2.00	0.00	0.64	0.00
21.55	30.34	2.00	0.00	0.63	0.00	21.59	30.64	2.00	0.00	0.63	0.00
21.72	29.64	2.00	0.00	0.63	0.00	21.76	28.78	2.00	0.00	0.63	0.00
21.83	27.66	2.00	0.00	0.63	0.00	21.89	26.71	2.00	0.00	0.63	0.00
21.95	26.68	2.00	0.00	0.63	0.00	22.02	26.63	2.00	0.00	0.63	0.00
22.07	24.41	2.00	0.00	0.63	0.00	22.12	24.05	2.00	0.00	0.63	0.00
22.19	25.63	2.00	0.00	0.62	0.00	22.25	29.57	2.00	0.00	0.62	0.00
22.36	102.64	2.00	0.00	0.62	0.00	22.42	106.19	2.00	0.00	0.62	0.00
22.47	107.70	2.00	0.00	0.62	0.00	22.54	108.15	2.00	0.00	0.62	0.00
22.60	106.79	2.00	0.00	0.62	0.00	22.66	104.48	2.00	0.00	0.62	0.00
22.73	102.78	2.00	0.00	0.61	0.00	22.79	101.09	0.21	1.95	0.61	0.01
22.85	99.11	0.20	1.99	0.61	0.02	22.91	97.53	0.20	2.02	0.61	0.01
23.04	95.22	0.19	2.06	0.61	0.03	23.10	93.89	0.19	2.08	0.61	0.01
23.17	31.73	2.00	0.00	0.61	0.00	23.22	30.42	2.00	0.00	0.61	0.00
23.28	29.50	2.00	0.00	0.61	0.00	23.35	29.45	2.00	0.00	0.60	0.00
23.40	29.42	2.00	0.00	0.60	0.00	23.48	30.00	2.00	0.00	0.60	0.00
23.53	30.77	2.00	0.00	0.60	0.00	23.57	31.12	2.00	0.00	0.60	0.00
23.65	90.23	0.18	2.13	0.60	0.02	23.72	90.37	0.18	2.13	0.60	0.02
23.79	30.17	2.00	0.00	0.60	0.00	23.84	28.73	2.00	0.00	0.60	0.00
23.89	28.81	2.00	0.00	0.60	0.00	23.97	28.25	2.00	0.00	0.59	0.00
24.03	28.85	2.00	0.00	0.59	0.00	24.12	29.11	2.00	0.00	0.59	0.00
24.16	28.77	2.00	0.00	0.59	0.00	24.25	27.00	2.00	0.00	0.59	0.00
24.28	25.49	2.00	0.00	0.59	0.00	24.39	22.03	2.00	0.00	0.59	0.00
24.43	21.23	2.00	0.00	0.59	0.00	24.49	20.13	2.00	0.00	0.58	0.00
24.57	20.02	2.00	0.00	0.58	0.00	24.61	19.92	2.00	0.00	0.58	0.00
24.68	19.04	2.00	0.00	0.58	0.00	24.76	20.54	2.00	0.00	0.58	0.00
24.81	25.29	2.00	0.00	0.58	0.00	24.90	112.59	2.00	0.00	0.58	0.00
24.95	126.72	2.00	0.00	0.58	0.00	25.00	135.52	2.00	0.00	0.58	0.00
25.10	144.27	2.00	0.00	0.57	0.00	25.18	147.53	0.43	1.21	0.57	0.01
25.23	137.47	0.35	1.31	0.57	0.01	25.28	129.85	0.30	1.39	0.57	0.01
25.36	137.72	0.35	1.30	0.57	0.01	25.41	142.96	0.39	1.25	0.57	0.01
25.48	150.68	0.47	1.17	0.57	0.01	25.53	155.11	0.52	1.13	0.57	0.01
25.60	160.42	0.61	0.96	0.57	0.01	25.70	167.01	0.76	0.75	0.56	0.01
25.74	169.90	0.84	0.61	0.56	0.00	25.82	176.14	1.06	0.38	0.56	0.00
25.87	179.55	1.22	0.27	0.56	0.00	25.96	182.50	1.39	0.19	0.56	0.00
26.01	182.71	1.40	0.18	0.56	0.00	26.07	182.51	1.39	0.19	0.56	0.00
26.13	181.64	1.34	0.21	0.56	0.00	26.22	175.22	1.02	0.41	0.56	0.00
26.26	170.46	0.85	0.58	0.55	0.00	26.32	165.28	0.71	0.80	0.55	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
26.39	158.58	0.57	1.00	0.55	0.01	26.49	147.51	0.43	1.17	0.55	0.01
26.55	145.18	0.40	1.18	0.55	0.01	26.61	146.96	0.42	1.17	0.55	0.01
26.66	152.91	0.49	1.11	0.55	0.01	26.71	161.18	0.62	0.91	0.55	0.00
26.78	169.10	0.81	0.64	0.55	0.01	26.84	174.69	0.99	0.42	0.55	0.00
26.94	177.70	1.12	0.32	0.54	0.00	27.00	177.70	1.12	0.32	0.54	0.00
27.11	176.45	1.06	0.36	0.54	0.00	27.18	175.88	1.04	0.38	0.54	0.00
27.24	175.28	1.02	0.40	0.54	0.00	27.29	175.01	1.00	0.41	0.54	0.00
27.36	174.97	1.00	0.41	0.54	0.00	27.42	174.95	1.00	0.41	0.54	0.00
27.49	174.77	0.99	0.41	0.53	0.00	27.55	177.17	1.09	0.33	0.53	0.00
27.61	180.27	1.25	0.24	0.53	0.00	27.68	187.72	1.75	0.06	0.53	0.00
27.72	193.69	2.00	0.00	0.53	0.00	27.85	206.98	2.00	0.00	0.53	0.00
27.98	215.49	2.00	0.00	0.53	0.00	28.03	211.19	2.00	0.00	0.52	0.00
28.07	211.48	2.00	0.00	0.52	0.00	28.13	211.59	2.00	0.00	0.52	0.00
28.20	211.89	2.00	0.00	0.52	0.00	28.25	211.56	2.00	0.00	0.52	0.00
28.30	210.04	2.00	0.00	0.52	0.00	28.37	208.15	2.00	0.00	0.52	0.00
28.44	207.94	2.00	0.00	0.52	0.00	28.48	208.20	2.00	0.00	0.52	0.00
28.55	209.45	2.00	0.00	0.52	0.00	28.65	215.69	2.00	0.00	0.51	0.00
28.71	219.92	2.00	0.00	0.51	0.00	28.77	225.49	2.00	0.00	0.51	0.00
28.82	231.15	2.00	0.00	0.51	0.00	28.90	238.45	2.00	0.00	0.51	0.00
29.00	248.51	2.00	0.00	0.51	0.00	29.08	252.31	2.00	0.00	0.51	0.00
29.18	252.48	2.00	0.00	0.51	0.00	29.25	249.16	2.00	0.00	0.50	0.00
29.30	243.88	2.00	0.00	0.50	0.00	29.37	236.87	2.00	0.00	0.50	0.00
29.43	231.61	2.00	0.00	0.50	0.00	29.52	225.77	2.00	0.00	0.50	0.00
29.60	227.31	2.00	0.00	0.50	0.00	29.65	225.99	2.00	0.00	0.50	0.00
29.71	228.72	2.00	0.00	0.50	0.00	29.78	233.85	2.00	0.00	0.50	0.00
29.89	241.10	2.00	0.00	0.49	0.00	29.95	243.19	2.00	0.00	0.49	0.00
30.00	243.31	2.00	0.00	0.49	0.00	30.09	241.56	2.00	0.00	0.49	0.00
30.13	239.19	2.00	0.00	0.49	0.00	30.20	235.33	2.00	0.00	0.49	0.00
30.26	230.67	2.00	0.00	0.49	0.00	30.32	226.44	2.00	0.00	0.49	0.00
30.39	221.03	2.00	0.00	0.48	0.00	30.44	217.97	2.00	0.00	0.48	0.00
30.50	214.89	2.00	0.00	0.48	0.00	30.57	212.07	2.00	0.00	0.48	0.00
30.63	210.44	2.00	0.00	0.48	0.00	30.70	208.85	2.00	0.00	0.48	0.00
30.75	207.43	2.00	0.00	0.48	0.00	30.82	208.33	2.00	0.00	0.48	0.00
30.88	187.12	1.67	0.07	0.48	0.00	30.93	176.03	1.03	0.34	0.48	0.00
31.01	175.58	1.01	0.35	0.47	0.00	31.06	175.83	1.02	0.35	0.47	0.00
31.11	175.80	1.02	0.35	0.47	0.00	31.17	172.33	0.89	0.45	0.47	0.00
31.26	174.59	0.97	0.38	0.47	0.00	31.37	178.24	1.12	0.28	0.47	0.00
31.41	179.27	1.17	0.25	0.47	0.00	31.46	179.21	1.17	0.25	0.47	0.00
31.50	178.59	1.14	0.27	0.47	0.00	31.59	177.67	1.09	0.29	0.46	0.00
31.66	179.34	1.17	0.25	0.46	0.00	31.71	181.47	1.28	0.19	0.46	0.00
31.79	186.37	1.61	0.09	0.46	0.00	31.83	188.71	1.79	0.04	0.46	0.00
31.90	191.21	2.00	0.00	0.46	0.00	31.99	192.89	2.00	0.00	0.46	0.00
32.03	192.48	2.00	0.00	0.46	0.00	32.16	187.52	1.69	0.06	0.45	0.00
32.21	185.50	1.54	0.10	0.45	0.00	32.27	184.16	1.45	0.13	0.45	0.00
32.33	184.52	1.47	0.12	0.45	0.00	32.38	185.29	1.52	0.11	0.45	0.00
32.44	186.42	1.60	0.08	0.45	0.00	32.52	188.22	1.74	0.05	0.45	0.00
32.57	189.73	1.87	0.02	0.45	0.00	32.64	190.92	1.97	0.00	0.45	0.00
32.70	192.28	2.00	0.00	0.45	0.00	32.75	193.57	2.00	0.00	0.44	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
32.82	194.68	2.00	0.00	0.44	0.00	32.93	194.49	2.00	0.00	0.44	0.00
33.00	193.09	2.00	0.00	0.44	0.00	33.05	191.56	2.00	0.00	0.44	0.00
33.17	187.90	1.71	0.06	0.44	0.00	33.22	166.45	0.72	0.60	0.44	0.00
33.28	162.69	0.63	0.69	0.44	0.00	33.35	162.72	0.63	0.68	0.43	0.01
33.42	164.09	0.66	0.65	0.43	0.00	33.49	168.67	0.77	0.55	0.43	0.00
33.51	171.54	0.86	0.45	0.43	0.00	33.57	175.87	1.01	0.32	0.43	0.00
33.61	176.30	1.03	0.31	0.43	0.00	33.69	176.56	1.04	0.30	0.43	0.00
33.74	175.72	1.00	0.32	0.43	0.00	33.83	169.79	0.80	0.50	0.43	0.01
33.87	168.32	0.76	0.55	0.43	0.00	33.95	161.56	0.61	0.69	0.42	0.01
34.01	155.90	0.52	0.84	0.42	0.01	34.10	151.11	0.46	0.87	0.42	0.01
34.23	162.62	0.63	0.66	0.42	0.01	34.28	171.17	0.84	0.45	0.42	0.00
34.32	170.59	0.82	0.46	0.42	0.00	34.40	163.25	0.64	0.64	0.42	0.01
34.45	163.31	0.64	0.64	0.42	0.00	34.51	166.42	0.71	0.58	0.42	0.00
34.58	169.17	0.78	0.51	0.41	0.00	34.65	163.15	0.64	0.64	0.41	0.01
34.72	168.76	0.77	0.52	0.41	0.00	34.81	170.66	0.83	0.45	0.41	0.00
34.86	171.23	0.84	0.43	0.41	0.00	34.91	171.10	0.84	0.44	0.41	0.00
35.01	170.02	0.81	0.47	0.41	0.01	35.07	169.27	0.79	0.49	0.41	0.00
35.11	168.45	0.76	0.52	0.40	0.00	35.22	166.41	0.71	0.56	0.40	0.01
35.28	165.13	0.68	0.58	0.40	0.00	35.33	163.62	0.65	0.61	0.40	0.00
35.44	160.46	2.00	0.00	0.40	0.00	35.56	154.94	2.00	0.00	0.40	0.00
35.64	149.89	2.00	0.00	0.40	0.00	35.69	143.69	2.00	0.00	0.40	0.00
35.75	135.87	2.00	0.00	0.39	0.00	35.81	126.88	2.00	0.00	0.39	0.00
35.87	51.69	2.00	0.00	0.39	0.00	35.91	45.19	2.00	0.00	0.39	0.00
35.99	41.43	2.00	0.00	0.39	0.00	36.04	39.61	2.00	0.00	0.39	0.00
36.11	38.22	2.00	0.00	0.39	0.00	36.17	40.09	2.00	0.00	0.39	0.00
36.23	45.92	2.00	0.00	0.39	0.00	36.30	117.62	2.00	0.00	0.38	0.00
36.41	134.88	2.00	0.00	0.38	0.00	36.47	148.53	2.00	0.00	0.38	0.00
36.53	161.77	2.00	0.00	0.38	0.00	36.58	173.06	2.00	0.00	0.38	0.00
36.66	181.30	2.00	0.00	0.38	0.00	36.70	186.14	2.00	0.00	0.38	0.00
36.78	188.07	2.00	0.00	0.38	0.00	36.83	188.09	2.00	0.00	0.38	0.00
36.91	186.49	2.00	0.00	0.37	0.00	36.97	187.93	1.69	0.05	0.37	0.00
37.01	182.12	1.30	0.15	0.37	0.00	37.10	164.24	0.66	0.55	0.37	0.01
37.15	166.95	0.72	0.50	0.37	0.00	37.22	172.13	0.87	0.37	0.37	0.00
37.27	176.05	1.01	0.27	0.37	0.00	37.35	180.20	1.19	0.19	0.37	0.00
37.42	183.84	1.40	0.12	0.37	0.00	37.49	186.98	1.62	0.07	0.36	0.00
37.54	188.83	1.76	0.04	0.36	0.00	37.63	192.06	2.00	0.00	0.36	0.00
37.69	192.80	2.00	0.00	0.36	0.00	37.75	189.72	1.83	0.03	0.36	0.00
37.82	184.78	1.46	0.10	0.36	0.00	37.86	189.85	1.84	0.02	0.36	0.00
37.93	177.62	1.07	0.23	0.36	0.00	38.04	192.40	2.00	0.00	0.36	0.00
38.12	201.34	2.00	0.00	0.35	0.00	38.17	205.76	2.00	0.00	0.35	0.00
38.22	207.23	2.00	0.00	0.35	0.00	38.30	206.56	2.00	0.00	0.35	0.00
38.35	204.87	2.00	0.00	0.35	0.00	38.40	206.15	2.00	0.00	0.35	0.00
38.52	203.77	2.00	0.00	0.35	0.00	38.59	205.42	2.00	0.00	0.35	0.00
38.65	207.68	2.00	0.00	0.34	0.00	38.70	209.40	2.00	0.00	0.34	0.00
38.76	210.53	2.00	0.00	0.34	0.00	38.88	207.95	2.00	0.00	0.34	0.00
38.95	202.33	2.00	0.00	0.34	0.00	39.01	194.75	2.00	0.00	0.34	0.00
39.06	188.01	2.00	0.00	0.34	0.00	39.13	179.90	2.00	0.00	0.34	0.00
39.19	171.16	2.00	0.00	0.34	0.00	39.27	160.81	2.00	0.00	0.33	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
39.32	148.76	2.00	0.00	0.33	0.00	39.37	132.93	2.00	0.00	0.33	0.00
39.51	37.02	2.00	0.00	0.33	0.00	39.58	28.56	2.00	0.00	0.33	0.00
39.63	23.17	2.00	0.00	0.33	0.00	39.69	19.16	2.00	0.00	0.33	0.00
39.75	16.52	2.00	0.00	0.33	0.00	39.78	16.30	2.00	0.00	0.33	0.00
39.84	16.48	2.00	0.00	0.32	0.00	39.90	16.03	2.00	0.00	0.32	0.00
39.99	16.42	2.00	0.00	0.32	0.00	40.05	16.87	2.00	0.00	0.32	0.00
40.09	17.62	2.00	0.00	0.32	0.00	40.20	18.54	2.00	0.00	0.32	0.00
40.25	18.77	2.00	0.00	0.32	0.00	40.32	19.30	2.00	0.00	0.32	0.00
40.36	20.24	2.00	0.00	0.32	0.00	40.49	23.43	2.00	0.00	0.31	0.00
40.54	25.25	2.00	0.00	0.31	0.00	40.61	27.64	2.00	0.00	0.31	0.00
40.67	28.87	2.00	0.00	0.31	0.00	40.73	28.73	2.00	0.00	0.31	0.00
40.84	29.56	2.00	0.00	0.31	0.00	40.90	28.00	2.00	0.00	0.31	0.00
40.97	26.13	2.00	0.00	0.31	0.00	41.02	27.74	2.00	0.00	0.30	0.00
41.09	27.50	2.00	0.00	0.30	0.00	41.15	33.75	2.00	0.00	0.30	0.00
41.21	40.87	2.00	0.00	0.30	0.00	41.25	46.81	2.00	0.00	0.30	0.00
41.33	117.04	2.00	0.00	0.30	0.00	41.38	121.52	2.00	0.00	0.30	0.00
41.45	125.33	2.00	0.00	0.30	0.00	41.51	126.93	2.00	0.00	0.30	0.00
41.56	126.18	2.00	0.00	0.30	0.00	41.63	120.91	2.00	0.00	0.29	0.00
41.69	46.06	2.00	0.00	0.29	0.00	41.77	36.65	2.00	0.00	0.29	0.00
41.81	36.61	2.00	0.00	0.29	0.00	41.87	26.22	2.00	0.00	0.29	0.00
41.94	22.29	2.00	0.00	0.29	0.00	42.06	17.66	2.00	0.00	0.29	0.00
42.12	17.65	2.00	0.00	0.29	0.00	42.17	15.62	2.00	0.00	0.29	0.00
42.23	15.37	2.00	0.00	0.28	0.00	42.30	15.65	2.00	0.00	0.28	0.00
42.36	17.13	2.00	0.00	0.28	0.00	42.42	20.34	2.00	0.00	0.28	0.00
42.47	25.33	2.00	0.00	0.28	0.00	42.53	31.98	2.00	0.00	0.28	0.00
42.60	99.97	0.20	0.89	0.28	0.01	42.65	103.91	0.21	0.86	0.28	0.01
42.73	106.67	0.21	0.83	0.28	0.01	42.78	108.77	0.22	0.81	0.27	0.01
42.88	112.77	0.23	0.78	0.27	0.01	42.92	112.19	0.23	0.78	0.27	0.00
43.01	45.33	2.00	0.00	0.27	0.00	43.05	42.65	2.00	0.00	0.27	0.00
43.14	36.35	2.00	0.00	0.27	0.00	43.22	31.30	2.00	0.00	0.27	0.00
43.27	29.46	2.00	0.00	0.27	0.00	43.32	27.95	2.00	0.00	0.27	0.00
43.40	23.49	2.00	0.00	0.26	0.00	43.45	20.74	2.00	0.00	0.26	0.00
43.53	16.91	2.00	0.00	0.26	0.00	43.59	15.60	2.00	0.00	0.26	0.00
43.64	14.52	2.00	0.00	0.26	0.00	43.75	13.00	2.00	0.00	0.26	0.00
43.80	13.38	2.00	0.00	0.26	0.00	43.85	13.92	2.00	0.00	0.26	0.00
43.91	14.19	2.00	0.00	0.26	0.00	44.01	15.01	2.00	0.00	0.25	0.00
44.07	15.45	2.00	0.00	0.25	0.00	44.11	15.44	2.00	0.00	0.25	0.00
44.21	16.65	2.00	0.00	0.25	0.00	44.28	18.11	2.00	0.00	0.25	0.00
44.33	21.03	2.00	0.00	0.25	0.00	44.37	26.29	2.00	0.00	0.25	0.00
44.44	33.54	2.00	0.00	0.25	0.00	44.51	102.93	2.00	0.00	0.25	0.00
44.57	109.53	2.00	0.00	0.24	0.00	44.64	115.70	2.00	0.00	0.24	0.00
44.75	124.16	2.00	0.00	0.24	0.00	44.87	130.89	0.30	0.58	0.24	0.01
44.95	134.98	0.32	0.56	0.24	0.01	44.99	132.86	0.31	0.56	0.24	0.00
45.07	134.35	0.32	0.55	0.24	0.01	45.12	141.29	0.36	0.52	0.24	0.00
45.18	147.58	0.42	0.50	0.23	0.00	45.25	154.79	0.50	0.47	0.23	0.00
45.31	157.97	0.55	0.43	0.23	0.00	45.36	163.26	0.64	0.36	0.23	0.00
45.43	169.67	0.79	0.28	0.23	0.00	45.48	172.07	0.86	0.23	0.23	0.00
45.61	171.84	0.85	0.23	0.23	0.00	45.68	168.47	0.76	0.29	0.23	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
45.74	164.09	2.00	0.00	0.22	0.00	45.79	159.09	2.00	0.00	0.22	0.00
45.87	153.13	2.00	0.00	0.22	0.00	45.92	145.16	2.00	0.00	0.22	0.00
45.99	135.05	2.00	0.00	0.22	0.00	46.05	123.14	2.00	0.00	0.22	0.00
46.12	45.10	2.00	0.00	0.22	0.00	46.18	34.26	2.00	0.00	0.22	0.00
46.23	27.12	2.00	0.00	0.22	0.00	46.32	22.70	2.00	0.00	0.21	0.00
46.36	22.68	2.00	0.00	0.21	0.00	46.42	19.72	2.00	0.00	0.21	0.00
46.48	18.59	2.00	0.00	0.21	0.00	46.53	18.55	2.00	0.00	0.21	0.00
46.62	18.53	2.00	0.00	0.21	0.00	46.69	18.49	2.00	0.00	0.21	0.00
46.74	18.59	2.00	0.00	0.21	0.00	46.82	18.40	2.00	0.00	0.21	0.00
46.87	18.33	2.00	0.00	0.21	0.00	46.92	18.32	2.00	0.00	0.20	0.00
47.00	18.41	2.00	0.00	0.20	0.00	47.05	18.56	2.00	0.00	0.20	0.00
47.22	17.10	2.00	0.00	0.20	0.00	47.28	16.60	2.00	0.00	0.20	0.00
47.35	16.75	2.00	0.00	0.20	0.00	47.40	17.73	2.00	0.00	0.20	0.00
47.53	20.51	2.00	0.00	0.19	0.00	47.61	19.67	2.00	0.00	0.19	0.00
47.66	17.62	2.00	0.00	0.19	0.00	47.71	15.60	2.00	0.00	0.19	0.00
47.78	13.66	2.00	0.00	0.19	0.00	47.84	15.95	2.00	0.00	0.19	0.00
47.91	25.29	2.00	0.00	0.19	0.00	47.97	39.54	2.00	0.00	0.19	0.00
48.02	119.59	2.00	0.00	0.19	0.00	48.09	136.84	2.00	0.00	0.18	0.00
48.15	156.83	2.00	0.00	0.18	0.00	48.20	174.44	2.00	0.00	0.18	0.00
48.28	179.65	2.00	0.00	0.18	0.00	48.37	173.28	2.00	0.00	0.18	0.00
48.45	191.87	2.00	0.00	0.18	0.00	48.50	208.94	2.00	0.00	0.18	0.00
48.56	224.39	2.00	0.00	0.18	0.00	48.63	239.19	2.00	0.00	0.18	0.00
48.68	250.56	2.00	0.00	0.17	0.00	48.74	254.00	2.00	0.00	0.17	0.00
48.81	254.00	2.00	0.00	0.17	0.00	48.85	249.70	2.00	0.00	0.17	0.00
48.92	240.96	2.00	0.00	0.17	0.00	48.99	231.03	2.00	0.00	0.17	0.00
49.04	221.84	2.00	0.00	0.17	0.00	49.09	226.28	2.00	0.00	0.17	0.00
49.16	238.77	2.00	0.00	0.17	0.00	49.22	245.68	2.00	0.00	0.17	0.00
49.30	236.96	2.00	0.00	0.16	0.00	49.38	244.49	2.00	0.00	0.16	0.00
49.47	235.81	2.00	0.00	0.16	0.00	49.52	244.83	2.00	0.00	0.16	0.00
49.56	244.73	2.00	0.00	0.16	0.00	49.61	241.53	2.00	0.00	0.16	0.00
49.68	235.92	2.00	0.00	0.16	0.00	49.74	238.52	2.00	0.00	0.16	0.00
49.81	235.16	2.00	0.00	0.16	0.00	49.88	233.37	2.00	0.00	0.15	0.00
49.94	232.24	2.00	0.00	0.15	0.00	50.00	186.45	2.00	0.00	0.15	0.00
50.09	192.30	2.00	0.00	0.15	0.00	50.13	199.33	2.00	0.00	0.15	0.00
50.22	214.83	2.00	0.00	0.15	0.00	50.31	243.89	2.00	0.00	0.15	0.00
50.34	260.71	2.00	0.00	0.15	0.00						

Total estimated settlement: 2.24

Abbreviations

$Q_{tn,cs}$:	Equivalent dean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

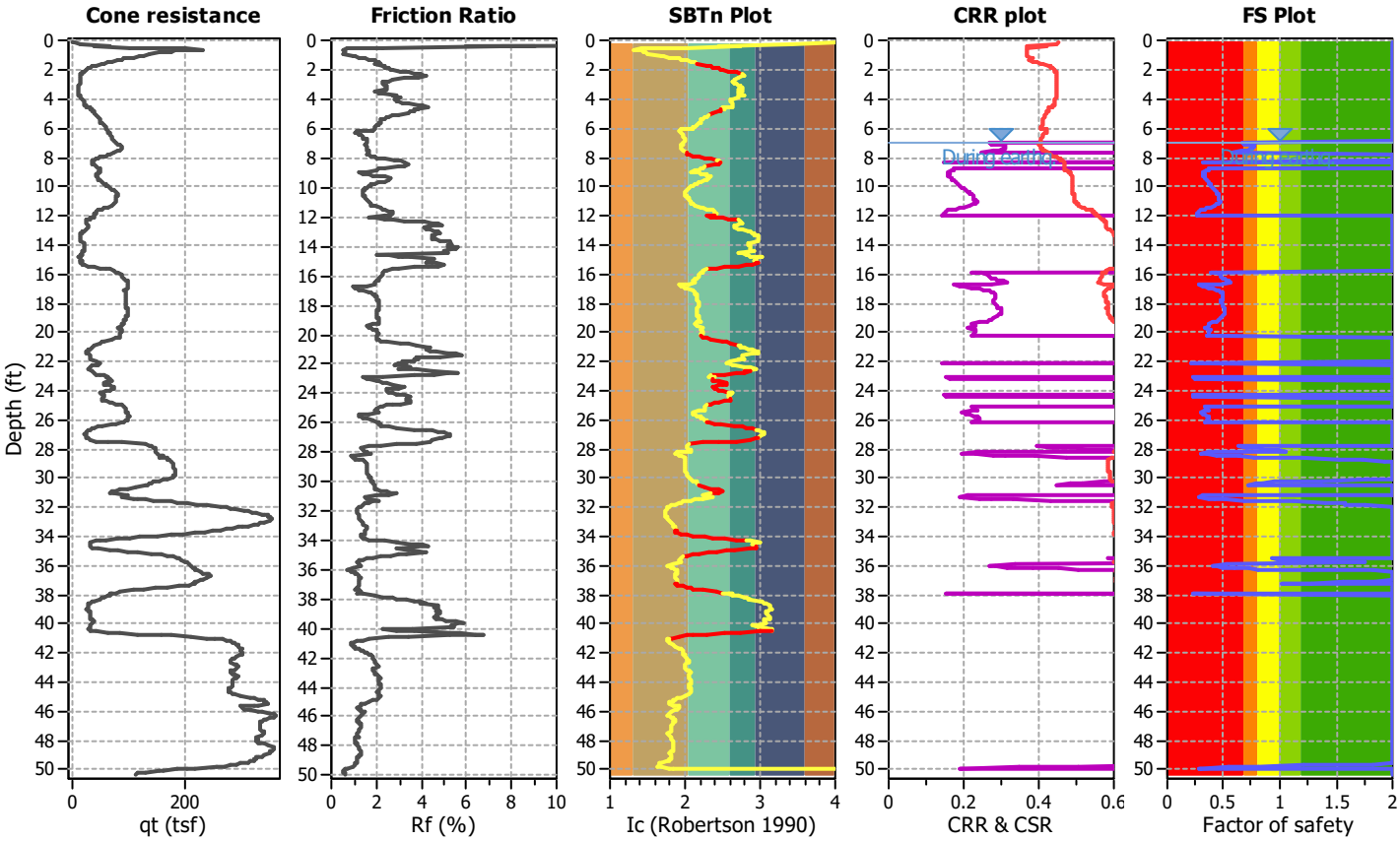
LIQUEFACTION ANALYSIS REPORT

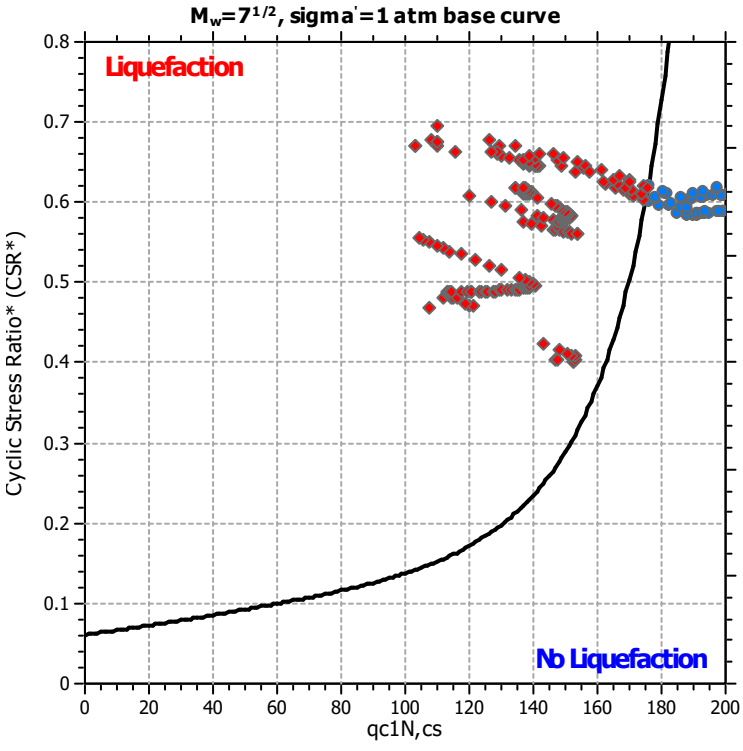
Project title : Southern California Geotechnical **Location : 9300 Hall Rd, Downey, CA**

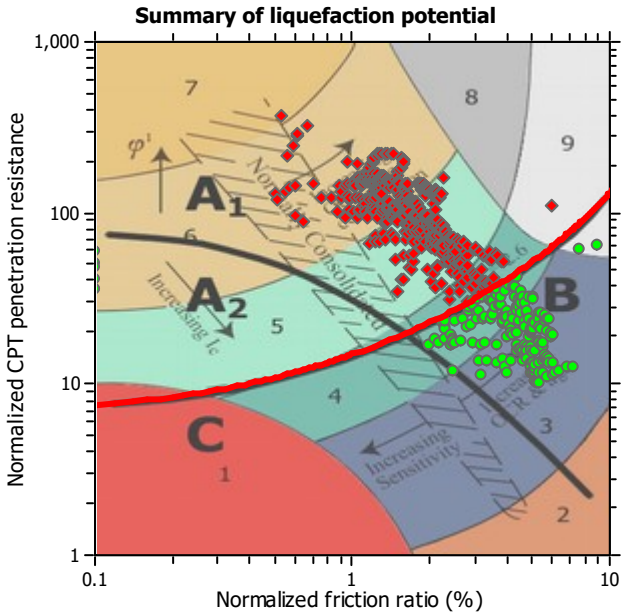
CPT file : CPT-3

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	80.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	7.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	1	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.88	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.79	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

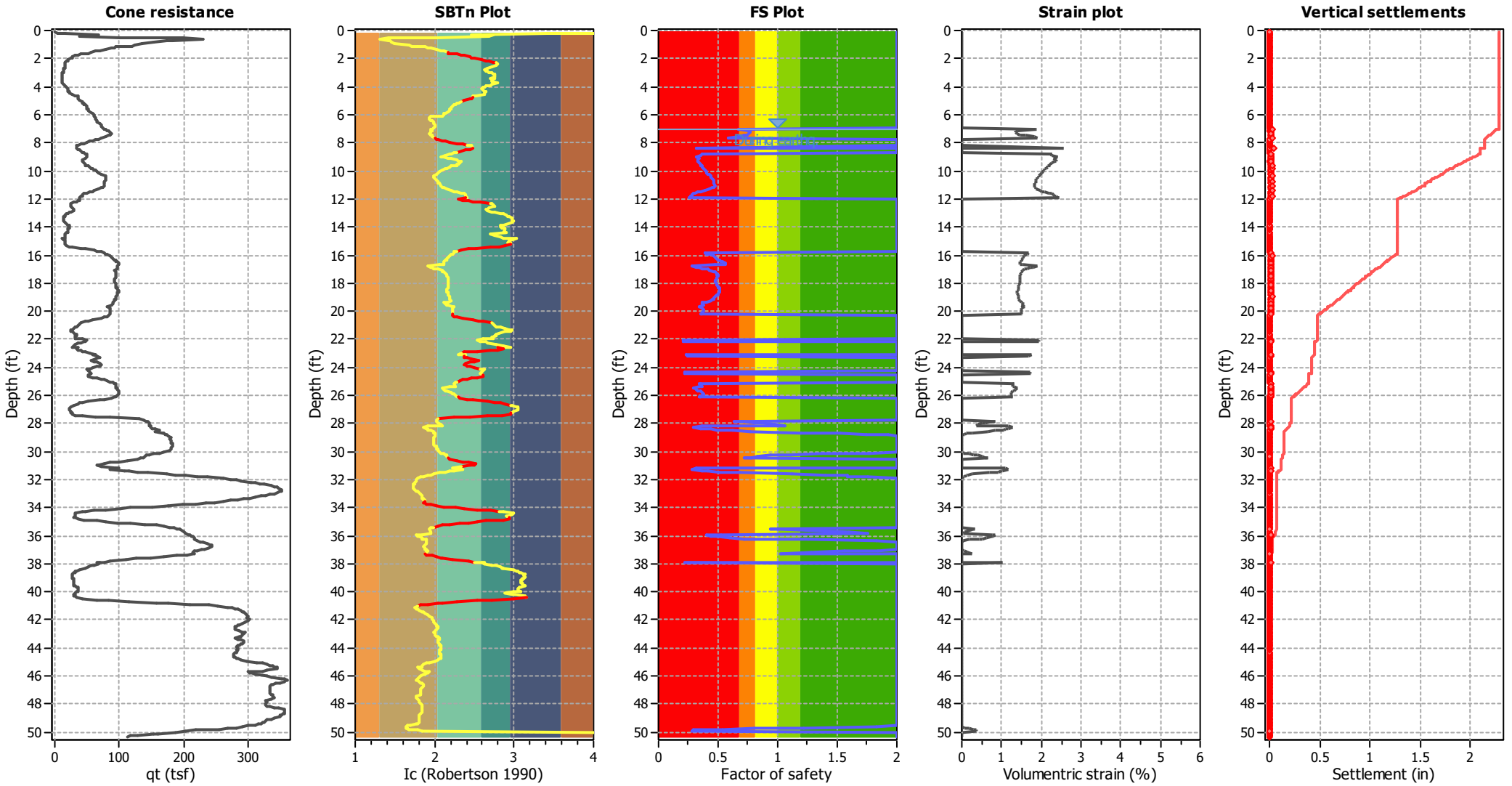






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
7.01	147.10	0.67	1.87	0.88	0.03	7.07	147.80	0.68	1.86	0.88	0.01
7.13	152.31	0.76	1.40	0.88	0.01	7.17	152.78	0.77	1.37	0.88	0.01
7.25	153.03	0.77	1.36	0.88	0.01	7.37	152.88	0.76	1.39	0.88	0.02
7.42	152.16	0.74	1.47	0.87	0.01	7.49	150.91	0.72	1.61	0.87	0.01
7.56	148.20	0.67	1.83	0.87	0.02	7.65	142.95	0.59	1.91	0.87	0.02
7.73	138.62	2.00	0.00	0.87	0.00	7.79	135.27	2.00	0.00	0.87	0.00
7.86	131.93	2.00	0.00	0.87	0.00	7.91	129.09	2.00	0.00	0.87	0.00
7.98	125.33	2.00	0.00	0.86	0.00	8.04	121.94	2.00	0.00	0.86	0.00
8.10	117.10	2.00	0.00	0.86	0.00	8.17	112.72	2.00	0.00	0.86	0.00
8.22	108.79	2.00	0.00	0.86	0.00	8.35	107.67	0.32	2.56	0.86	0.04
8.39	107.36	2.00	0.00	0.86	0.00	8.47	109.59	2.00	0.00	0.86	0.00
8.52	113.07	2.00	0.00	0.86	0.00	8.65	117.19	2.00	0.00	0.85	0.00
8.70	118.88	2.00	0.00	0.85	0.00	8.78	120.10	0.36	2.26	0.85	0.02
8.83	121.45	0.37	2.23	0.85	0.01	8.89	118.58	0.36	2.28	0.85	0.02
8.96	111.93	0.32	2.42	0.85	0.02	9.01	114.56	0.33	2.36	0.85	0.01
9.07	115.23	0.34	2.35	0.85	0.02	9.14	116.48	0.34	2.32	0.85	0.02
9.19	112.99	0.32	2.39	0.84	0.01	9.24	113.20	0.32	2.38	0.84	0.01
9.26	113.57	0.32	2.37	0.84	0.01	9.34	114.46	0.33	2.35	0.84	0.02
9.41	117.66	0.34	2.28	0.84	0.02	9.48	119.61	0.35	2.24	0.84	0.02
9.55	120.67	0.35	2.21	0.84	0.02	9.58	120.40	0.35	2.22	0.84	0.01
9.67	122.85	0.36	2.16	0.84	0.02	9.72	123.55	0.37	2.15	0.84	0.01
9.80	125.03	0.38	2.12	0.83	0.02	9.85	125.72	0.38	2.10	0.83	0.01
9.93	127.29	0.39	2.07	0.83	0.02	9.98	128.00	0.39	2.06	0.83	0.01
10.06	129.12	0.40	2.03	0.83	0.02	10.11	129.95	0.40	2.02	0.83	0.01
10.20	132.00	0.42	1.98	0.83	0.02	10.24	133.02	0.42	1.96	0.83	0.01
10.36	134.64	0.43	1.93	0.82	0.03	10.42	134.93	0.44	1.92	0.82	0.01
10.47	135.40	0.44	1.91	0.82	0.01	10.55	136.81	0.45	1.89	0.82	0.02
10.60	137.46	0.45	1.88	0.82	0.01	10.64	138.06	0.46	1.87	0.82	0.01
10.75	138.60	0.46	1.86	0.82	0.02	10.80	138.45	0.46	1.86	0.82	0.01
10.87	138.37	0.46	1.85	0.82	0.01	10.90	138.80	0.46	1.85	0.82	0.01
11.03	140.40	0.48	1.82	0.81	0.03	11.08	140.28	0.47	1.82	0.81	0.01
11.15	138.98	0.46	1.83	0.81	0.02	11.21	137.73	0.45	1.85	0.81	0.01
11.26	135.75	0.43	1.88	0.81	0.01	11.39	130.23	0.38	1.96	0.81	0.03
11.44	126.46	0.36	2.02	0.81	0.01	11.51	122.13	0.33	2.10	0.81	0.02
11.56	117.41	0.31	2.19	0.80	0.02	11.62	113.94	0.29	2.25	0.80	0.02
11.69	111.59	0.29	2.30	0.80	0.02	11.75	109.79	0.28	2.34	0.80	0.02
11.83	107.53	0.27	2.38	0.80	0.02	11.87	105.57	0.26	2.43	0.80	0.01
11.95	104.60	0.26	2.45	0.80	0.02	12.01	99.96	2.00	0.00	0.80	0.00
12.07	100.86	2.00	0.00	0.80	0.00	12.13	100.10	2.00	0.00	0.79	0.00
12.18	97.68	2.00	0.00	0.79	0.00	12.25	94.69	2.00	0.00	0.79	0.00
12.28	28.41	2.00	0.00	0.79	0.00	12.36	28.32	2.00	0.00	0.79	0.00
12.42	28.24	2.00	0.00	0.79	0.00	12.49	28.16	2.00	0.00	0.79	0.00
12.54	28.94	2.00	0.00	0.79	0.00	12.62	31.36	2.00	0.00	0.79	0.00
12.68	33.07	2.00	0.00	0.79	0.00	12.73	33.54	2.00	0.00	0.78	0.00
12.80	32.71	2.00	0.00	0.78	0.00	12.89	29.07	2.00	0.00	0.78	0.00
12.93	26.62	2.00	0.00	0.78	0.00	13.02	22.03	2.00	0.00	0.78	0.00
13.06	20.43	2.00	0.00	0.78	0.00	13.16	18.15	2.00	0.00	0.78	0.00
13.20	17.17	2.00	0.00	0.78	0.00	13.28	15.76	2.00	0.00	0.77	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
13.37	14.66	2.00	0.00	0.77	0.00	13.41	14.64	2.00	0.00	0.77	0.00
13.46	14.61	2.00	0.00	0.77	0.00	13.55	14.56	2.00	0.00	0.77	0.00
13.59	14.84	2.00	0.00	0.77	0.00	13.68	16.44	2.00	0.00	0.77	0.00
13.85	22.67	2.00	0.00	0.77	0.00	13.90	24.14	2.00	0.00	0.76	0.00
13.98	24.47	2.00	0.00	0.76	0.00	14.03	23.72	2.00	0.00	0.76	0.00
14.09	22.66	2.00	0.00	0.76	0.00	14.16	22.49	2.00	0.00	0.76	0.00
14.21	22.15	2.00	0.00	0.76	0.00	14.34	21.25	2.00	0.00	0.76	0.00
14.40	19.80	2.00	0.00	0.76	0.00	14.52	17.65	2.00	0.00	0.75	0.00
14.57	17.50	2.00	0.00	0.75	0.00	14.65	16.55	2.00	0.00	0.75	0.00
14.70	16.92	2.00	0.00	0.75	0.00	14.77	16.48	2.00	0.00	0.75	0.00
14.79	12.98	2.00	0.00	0.75	0.00	14.86	14.53	2.00	0.00	0.75	0.00
14.91	15.61	2.00	0.00	0.75	0.00	15.04	15.92	2.00	0.00	0.75	0.00
15.08	16.59	2.00	0.00	0.74	0.00	15.12	16.16	2.00	0.00	0.74	0.00
15.17	16.34	2.00	0.00	0.74	0.00	15.25	16.97	2.00	0.00	0.74	0.00
15.34	19.75	2.00	0.00	0.74	0.00	15.39	23.01	2.00	0.00	0.74	0.00
15.43	28.01	2.00	0.00	0.74	0.00	15.52	101.82	2.00	0.00	0.74	0.00
15.56	110.03	2.00	0.00	0.74	0.00	15.65	122.65	2.00	0.00	0.73	0.00
15.69	127.71	2.00	0.00	0.73	0.00	15.78	134.65	2.00	0.00	0.73	0.00
15.84	137.05	0.39	1.68	0.73	0.01	15.90	139.67	0.41	1.64	0.73	0.01
15.96	142.75	0.43	1.60	0.73	0.01	16.09	145.98	0.47	1.56	0.73	0.02
16.19	146.85	0.48	1.54	0.73	0.02	16.27	147.94	0.49	1.53	0.72	0.01
16.32	149.43	0.51	1.51	0.72	0.01	16.39	150.39	0.52	1.49	0.72	0.01
16.45	151.18	0.53	1.48	0.72	0.01	16.50	152.16	0.54	1.47	0.72	0.01
16.58	153.62	0.56	1.45	0.72	0.01	16.62	153.95	0.57	1.45	0.72	0.01
16.70	147.31	0.48	1.52	0.72	0.01	16.75	120.15	0.28	1.90	0.72	0.01
16.82	126.58	0.31	1.79	0.71	0.02	16.88	131.36	0.34	1.72	0.71	0.01
16.94	136.11	0.37	1.65	0.71	0.01	17.02	141.16	0.41	1.58	0.71	0.02
17.11	143.43	0.43	1.55	0.71	0.02	17.16	146.46	0.46	1.51	0.71	0.01
17.22	147.79	0.48	1.49	0.71	0.01	17.26	148.40	0.48	1.49	0.71	0.01
17.35	149.12	0.49	1.47	0.71	0.02	17.40	149.36	0.49	1.47	0.71	0.01
17.49	149.59	0.50	1.46	0.70	0.02	17.55	149.46	0.49	1.46	0.70	0.01
17.60	149.39	0.49	1.46	0.70	0.01	17.66	149.24	0.49	1.46	0.70	0.01
17.75	148.63	0.48	1.47	0.70	0.02	17.80	148.55	0.48	1.47	0.70	0.01
17.86	148.45	0.48	1.46	0.70	0.01	17.92	148.52	0.48	1.46	0.70	0.01
18.02	149.16	0.49	1.45	0.69	0.02	18.06	149.20	0.49	1.45	0.69	0.01
18.17	149.78	0.49	1.44	0.69	0.02	18.22	150.19	0.50	1.43	0.69	0.01
18.27	150.42	0.50	1.43	0.69	0.01	18.32	151.16	0.51	1.42	0.69	0.01
18.38	151.37	0.51	1.41	0.69	0.01	18.50	151.41	0.51	1.41	0.69	0.02
18.56	151.59	0.51	1.41	0.69	0.01	18.63	151.63	0.51	1.40	0.68	0.01
18.68	151.31	0.51	1.40	0.68	0.01	18.76	150.84	0.50	1.41	0.68	0.01
18.81	150.37	0.50	1.41	0.68	0.01	18.86	149.86	0.49	1.41	0.68	0.01
18.99	148.75	0.48	1.42	0.68	0.02	19.06	148.09	0.47	1.43	0.68	0.01
19.12	147.38	0.46	1.43	0.68	0.01	19.17	146.60	0.45	1.44	0.68	0.01
19.25	145.44	0.44	1.45	0.67	0.01	19.32	141.53	0.40	1.49	0.67	0.01
19.38	137.13	0.36	1.54	0.67	0.01	19.47	137.75	0.37	1.53	0.67	0.02
19.53	138.32	0.37	1.52	0.67	0.01	19.60	138.89	0.38	1.51	0.67	0.01
19.65	134.52	0.34	1.56	0.67	0.01	19.70	134.15	0.34	1.57	0.67	0.01
19.79	138.41	0.37	1.51	0.66	0.02	19.86	139.37	0.38	1.50	0.66	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
19.91	139.11	0.38	1.50	0.66	0.01	19.98	138.78	0.37	1.50	0.66	0.01
20.05	138.25	0.37	1.50	0.66	0.01	20.10	138.01	0.37	1.50	0.66	0.01
20.18	137.57	0.36	1.50	0.66	0.02	20.22	136.94	0.36	1.51	0.66	0.01
20.29	135.64	2.00	0.00	0.66	0.00	20.35	134.09	2.00	0.00	0.66	0.00
20.42	131.33	2.00	0.00	0.65	0.00	20.49	126.60	2.00	0.00	0.65	0.00
20.61	114.56	2.00	0.00	0.65	0.00	20.66	109.24	2.00	0.00	0.65	0.00
20.71	41.56	2.00	0.00	0.65	0.00	20.84	34.69	2.00	0.00	0.65	0.00
20.90	32.70	2.00	0.00	0.65	0.00	20.97	31.64	2.00	0.00	0.64	0.00
21.02	31.18	2.00	0.00	0.64	0.00	21.10	29.36	2.00	0.00	0.64	0.00
21.15	27.16	2.00	0.00	0.64	0.00	21.23	24.70	2.00	0.00	0.64	0.00
21.28	23.09	2.00	0.00	0.64	0.00	21.34	21.90	2.00	0.00	0.64	0.00
21.41	21.78	2.00	0.00	0.64	0.00	21.48	23.80	2.00	0.00	0.64	0.00
21.60	27.59	2.00	0.00	0.63	0.00	21.68	28.03	2.00	0.00	0.63	0.00
21.73	27.99	2.00	0.00	0.63	0.00	21.78	25.91	2.00	0.00	0.63	0.00
21.85	27.62	2.00	0.00	0.63	0.00	21.90	27.29	2.00	0.00	0.63	0.00
21.99	35.53	2.00	0.00	0.63	0.00	22.05	103.33	0.21	1.95	0.63	0.01
22.12	103.25	0.21	1.94	0.63	0.02	22.18	37.85	2.00	0.00	0.62	0.00
22.25	34.41	2.00	0.00	0.62	0.00	22.31	30.36	2.00	0.00	0.62	0.00
22.39	26.82	2.00	0.00	0.62	0.00	22.44	25.01	2.00	0.00	0.62	0.00
22.56	23.01	2.00	0.00	0.62	0.00	22.62	30.36	2.00	0.00	0.62	0.00
22.67	27.78	2.00	0.00	0.62	0.00	22.74	30.80	2.00	0.00	0.61	0.00
22.79	33.42	2.00	0.00	0.61	0.00	22.86	95.96	2.00	0.00	0.61	0.00
22.92	96.86	2.00	0.00	0.61	0.00	22.98	104.12	2.00	0.00	0.61	0.00
23.05	111.45	2.00	0.00	0.61	0.00	23.11	109.95	0.23	1.77	0.61	0.01
23.17	115.94	0.25	1.67	0.61	0.01	23.27	120.37	2.00	0.00	0.61	0.00
23.31	118.63	2.00	0.00	0.60	0.00	23.36	115.43	2.00	0.00	0.60	0.00
23.49	109.63	2.00	0.00	0.60	0.00	23.55	109.03	2.00	0.00	0.60	0.00
23.62	112.90	2.00	0.00	0.60	0.00	23.66	117.59	2.00	0.00	0.60	0.00
23.73	121.73	2.00	0.00	0.60	0.00	23.80	123.52	2.00	0.00	0.60	0.00
23.85	123.69	2.00	0.00	0.60	0.00	23.92	122.16	2.00	0.00	0.59	0.00
23.97	117.64	2.00	0.00	0.59	0.00	24.03	112.25	2.00	0.00	0.59	0.00
24.11	107.15	2.00	0.00	0.59	0.00	24.16	40.65	2.00	0.00	0.59	0.00
24.28	41.74	2.00	0.00	0.59	0.00	24.33	108.40	0.22	1.74	0.59	0.01
24.41	109.82	0.22	1.71	0.59	0.02	24.46	109.71	0.22	1.71	0.59	0.01
24.51	42.57	2.00	0.00	0.58	0.00	24.59	42.02	2.00	0.00	0.58	0.00
24.64	41.98	2.00	0.00	0.58	0.00	24.71	110.85	2.00	0.00	0.58	0.00
24.77	116.91	2.00	0.00	0.58	0.00	24.82	121.45	2.00	0.00	0.58	0.00
24.90	126.01	2.00	0.00	0.58	0.00	24.94	129.66	2.00	0.00	0.58	0.00
25.01	132.58	2.00	0.00	0.58	0.00	25.08	134.85	2.00	0.00	0.57	0.00
25.14	136.86	0.34	1.32	0.57	0.01	25.20	138.67	0.35	1.30	0.57	0.01
25.33	140.49	0.37	1.27	0.57	0.02	25.38	136.84	0.34	1.31	0.57	0.01
25.44	128.79	0.29	1.40	0.57	0.01	25.52	130.15	0.30	1.38	0.57	0.01
25.56	132.43	0.31	1.35	0.57	0.01	25.63	135.65	0.33	1.31	0.57	0.01
25.69	138.58	0.35	1.28	0.56	0.01	25.80	140.56	0.37	1.26	0.56	0.02
25.85	141.30	0.37	1.25	0.56	0.01	25.91	141.66	0.38	1.24	0.56	0.01
25.97	141.37	0.37	1.24	0.56	0.01	26.02	140.36	0.36	1.25	0.56	0.01
26.07	139.02	0.35	1.26	0.56	0.01	26.13	137.18	0.34	1.28	0.56	0.01
26.20	134.52	2.00	0.00	0.56	0.00	26.29	125.48	2.00	0.00	0.55	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
26.34	118.50	2.00	0.00	0.55	0.00	26.43	39.77	2.00	0.00	0.55	0.00
26.48	33.86	2.00	0.00	0.55	0.00	26.53	29.81	2.00	0.00	0.55	0.00
26.58	26.70	2.00	0.00	0.55	0.00	26.68	22.70	2.00	0.00	0.55	0.00
26.71	21.50	2.00	0.00	0.55	0.00	26.81	18.94	2.00	0.00	0.55	0.00
26.86	18.19	2.00	0.00	0.54	0.00	26.90	17.73	2.00	0.00	0.54	0.00
26.99	17.19	2.00	0.00	0.54	0.00	27.04	17.03	2.00	0.00	0.54	0.00
27.17	18.37	2.00	0.00	0.54	0.00	27.21	19.37	2.00	0.00	0.54	0.00
27.26	20.08	2.00	0.00	0.54	0.00	27.31	20.35	2.00	0.00	0.54	0.00
27.42	24.25	2.00	0.00	0.54	0.00	27.47	32.49	2.00	0.00	0.53	0.00
27.52	109.27	2.00	0.00	0.53	0.00	27.56	127.00	2.00	0.00	0.53	0.00
27.70	153.28	2.00	0.00	0.53	0.00	27.75	157.54	2.00	0.00	0.53	0.00
27.83	162.31	0.64	0.84	0.53	0.01	27.88	165.46	0.71	0.76	0.53	0.00
27.96	169.80	0.82	0.59	0.53	0.01	28.01	171.35	0.87	0.53	0.53	0.00
28.09	174.39	0.97	0.42	0.52	0.00	28.14	176.42	1.06	0.35	0.52	0.00
28.20	140.93	0.36	1.16	0.52	0.01	28.27	129.44	0.29	1.27	0.52	0.01
28.33	138.71	0.35	1.18	0.52	0.01	28.40	148.54	0.43	1.09	0.52	0.01
28.44	153.22	0.49	1.05	0.52	0.01	28.50	161.81	0.63	0.84	0.52	0.01
28.56	168.19	0.77	0.65	0.52	0.00	28.65	179.52	1.20	0.26	0.51	0.00
28.71	185.01	1.53	0.12	0.51	0.00	28.78	187.83	1.74	0.06	0.51	0.00
28.83	189.97	1.92	0.02	0.51	0.00	28.89	191.35	2.00	0.00	0.51	0.00
28.95	193.01	2.00	0.00	0.51	0.00	29.01	193.00	2.00	0.00	0.51	0.00
29.07	192.15	2.00	0.00	0.51	0.00	29.18	191.45	2.00	0.00	0.51	0.00
29.26	191.43	2.00	0.00	0.50	0.00	29.31	191.48	2.00	0.00	0.50	0.00
29.39	192.73	2.00	0.00	0.50	0.00	29.44	194.02	2.00	0.00	0.50	0.00
29.49	194.99	2.00	0.00	0.50	0.00	29.57	197.27	2.00	0.00	0.50	0.00
29.62	198.31	2.00	0.00	0.50	0.00	29.66	199.07	2.00	0.00	0.50	0.00
29.74	199.24	2.00	0.00	0.50	0.00	29.80	199.14	2.00	0.00	0.50	0.00
29.86	199.07	2.00	0.00	0.49	0.00	29.92	198.33	2.00	0.00	0.49	0.00
30.03	193.44	2.00	0.00	0.49	0.00	30.10	188.29	1.77	0.05	0.49	0.00
30.17	182.76	1.37	0.17	0.49	0.00	30.22	177.86	1.11	0.30	0.49	0.00
30.28	173.74	0.94	0.42	0.49	0.00	30.36	170.58	0.83	0.53	0.49	0.01
30.41	168.83	0.78	0.60	0.48	0.00	30.47	166.49	0.72	0.67	0.48	0.00
30.54	162.63	2.00	0.00	0.48	0.00	30.67	150.04	2.00	0.00	0.48	0.00
30.72	139.75	2.00	0.00	0.48	0.00	30.80	128.77	2.00	0.00	0.48	0.00
30.85	120.45	2.00	0.00	0.48	0.00	30.92	113.09	2.00	0.00	0.48	0.00
30.98	109.04	2.00	0.00	0.47	0.00	31.03	111.59	2.00	0.00	0.47	0.00
31.16	130.19	2.00	0.00	0.47	0.00	31.22	134.18	0.32	1.11	0.47	0.01
31.26	126.45	0.28	1.18	0.47	0.01	31.38	142.04	0.37	1.03	0.47	0.01
31.43	147.44	0.42	0.99	0.47	0.01	31.47	155.65	0.52	0.93	0.47	0.01
31.52	164.96	0.68	0.68	0.47	0.00	31.62	178.40	1.12	0.27	0.46	0.00
31.68	183.39	1.40	0.15	0.46	0.00	31.73	186.05	1.58	0.09	0.46	0.00
31.78	186.15	1.59	0.09	0.46	0.00	31.83	188.34	1.75	0.05	0.46	0.00
31.94	204.48	2.00	0.00	0.46	0.00	31.99	213.12	2.00	0.00	0.46	0.00
32.05	220.99	2.00	0.00	0.46	0.00	32.09	228.20	2.00	0.00	0.46	0.00
32.19	242.68	2.00	0.00	0.45	0.00	32.26	250.12	2.00	0.00	0.45	0.00
32.31	254.00	2.00	0.00	0.45	0.00	32.35	254.00	2.00	0.00	0.45	0.00
32.46	254.00	2.00	0.00	0.45	0.00	32.50	254.00	2.00	0.00	0.45	0.00
32.57	254.00	2.00	0.00	0.45	0.00	32.62	254.00	2.00	0.00	0.45	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
32.71	254.00	2.00	0.00	0.45	0.00	32.76	254.00	2.00	0.00	0.44	0.00
32.83	254.00	2.00	0.00	0.44	0.00	32.88	254.00	2.00	0.00	0.44	0.00
33.01	254.00	2.00	0.00	0.44	0.00	33.07	254.00	2.00	0.00	0.44	0.00
33.14	254.00	2.00	0.00	0.44	0.00	33.19	254.00	2.00	0.00	0.44	0.00
33.26	254.00	2.00	0.00	0.44	0.00	33.32	254.00	2.00	0.00	0.44	0.00
33.38	252.31	2.00	0.00	0.43	0.00	33.45	242.58	2.00	0.00	0.43	0.00
33.51	237.23	2.00	0.00	0.43	0.00	33.57	229.97	2.00	0.00	0.43	0.00
33.63	206.07	2.00	0.00	0.43	0.00	33.68	199.19	2.00	0.00	0.43	0.00
33.76	194.10	2.00	0.00	0.43	0.00	33.81	191.51	2.00	0.00	0.43	0.00
33.89	183.02	2.00	0.00	0.43	0.00	33.94	171.28	2.00	0.00	0.42	0.00
33.99	150.87	2.00	0.00	0.42	0.00	34.07	138.27	2.00	0.00	0.42	0.00
34.14	120.55	2.00	0.00	0.42	0.00	34.21	40.61	2.00	0.00	0.42	0.00
34.28	31.86	2.00	0.00	0.42	0.00	34.32	28.22	2.00	0.00	0.42	0.00
34.43	19.95	2.00	0.00	0.42	0.00	34.47	19.93	2.00	0.00	0.42	0.00
34.56	19.79	2.00	0.00	0.41	0.00	34.60	19.77	2.00	0.00	0.41	0.00
34.68	19.67	2.00	0.00	0.41	0.00	34.72	20.50	2.00	0.00	0.41	0.00
34.78	23.08	2.00	0.00	0.41	0.00	34.86	29.18	2.00	0.00	0.41	0.00
34.95	44.52	2.00	0.00	0.41	0.00	35.01	120.20	2.00	0.00	0.41	0.00
35.08	135.13	2.00	0.00	0.41	0.00	35.13	150.01	2.00	0.00	0.40	0.00
35.19	165.80	2.00	0.00	0.40	0.00	35.26	174.59	2.00	0.00	0.40	0.00
35.31	177.74	2.00	0.00	0.40	0.00	35.39	175.10	2.00	0.00	0.40	0.00
35.44	173.17	2.00	0.00	0.40	0.00	35.50	174.14	0.94	0.34	0.40	0.00
35.57	175.80	1.00	0.30	0.40	0.00	35.75	186.63	1.60	0.08	0.39	0.00
35.80	188.69	1.75	0.04	0.39	0.00	35.92	156.52	0.52	0.76	0.39	0.01
35.97	146.23	0.40	0.83	0.39	0.00	36.05	149.29	0.43	0.81	0.39	0.01
36.10	153.78	0.49	0.78	0.39	0.00	36.16	161.27	0.60	0.64	0.39	0.00
36.21	166.69	0.72	0.53	0.39	0.00	36.23	169.99	0.80	0.45	0.39	0.00
36.30	181.42	1.26	0.17	0.38	0.00	36.36	189.61	1.83	0.03	0.38	0.00
36.46	196.32	2.00	0.00	0.38	0.00	36.51	199.06	2.00	0.00	0.38	0.00
36.58	201.90	2.00	0.00	0.38	0.00	36.63	202.24	2.00	0.00	0.38	0.00
36.68	201.28	2.00	0.00	0.38	0.00	36.76	198.83	2.00	0.00	0.38	0.00
36.89	194.38	2.00	0.00	0.37	0.00	36.94	193.34	2.00	0.00	0.37	0.00
36.99	192.44	2.00	0.00	0.37	0.00	37.07	189.74	1.84	0.03	0.37	0.00
37.12	186.21	1.56	0.08	0.37	0.00	37.18	181.90	1.29	0.15	0.37	0.00
37.24	176.38	1.02	0.27	0.37	0.00	37.30	172.91	2.00	0.00	0.37	0.00
37.36	173.50	2.00	0.00	0.37	0.00	37.42	177.42	2.00	0.00	0.37	0.00
37.49	173.07	2.00	0.00	0.36	0.00	37.56	158.00	2.00	0.00	0.36	0.00
37.62	140.37	2.00	0.00	0.36	0.00	37.69	134.57	2.00	0.00	0.36	0.00
37.82	119.82	2.00	0.00	0.36	0.00	37.87	114.78	2.00	0.00	0.36	0.00
37.88	42.34	2.00	0.00	0.36	0.00	37.95	110.20	0.22	1.04	0.36	0.01
38.00	43.69	2.00	0.00	0.36	0.00	38.09	39.65	2.00	0.00	0.35	0.00
38.17	35.30	2.00	0.00	0.35	0.00	38.22	32.75	2.00	0.00	0.35	0.00
38.30	30.39	2.00	0.00	0.35	0.00	38.35	30.36	2.00	0.00	0.35	0.00
38.39	23.64	2.00	0.00	0.35	0.00	38.48	20.69	2.00	0.00	0.35	0.00
38.54	19.63	2.00	0.00	0.35	0.00	38.59	18.75	2.00	0.00	0.35	0.00
38.65	18.00	2.00	0.00	0.34	0.00	38.74	16.47	2.00	0.00	0.34	0.00
38.79	16.03	2.00	0.00	0.34	0.00	38.89	16.37	2.00	0.00	0.34	0.00
38.93	15.76	2.00	0.00	0.34	0.00	39.03	16.28	2.00	0.00	0.34	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
39.10	17.10	2.00	0.00	0.34	0.00	39.14	17.57	2.00	0.00	0.34	0.00
39.19	17.98	2.00	0.00	0.34	0.00	39.28	18.14	2.00	0.00	0.33	0.00
39.32	18.01	2.00	0.00	0.33	0.00	39.38	17.99	2.00	0.00	0.33	0.00
39.45	17.98	2.00	0.00	0.33	0.00	39.54	17.95	2.00	0.00	0.33	0.00
39.62	18.95	2.00	0.00	0.33	0.00	39.67	20.64	2.00	0.00	0.33	0.00
39.72	21.72	2.00	0.00	0.33	0.00	39.78	22.44	2.00	0.00	0.33	0.00
39.84	22.41	2.00	0.00	0.32	0.00	39.96	21.04	2.00	0.00	0.32	0.00
40.02	19.81	2.00	0.00	0.32	0.00	40.09	18.63	2.00	0.00	0.32	0.00
40.16	17.85	2.00	0.00	0.32	0.00	40.21	18.62	2.00	0.00	0.32	0.00
40.28	17.34	2.00	0.00	0.32	0.00	40.33	18.58	2.00	0.00	0.32	0.00
40.41	19.70	2.00	0.00	0.32	0.00	40.43	19.69	2.00	0.00	0.31	0.00
40.51	26.20	2.00	0.00	0.31	0.00	40.58	40.38	2.00	0.00	0.31	0.00
40.64	119.07	2.00	0.00	0.31	0.00	40.72	139.23	2.00	0.00	0.31	0.00
40.79	167.05	2.00	0.00	0.31	0.00	40.81	175.93	2.00	0.00	0.31	0.00
40.90	177.54	2.00	0.00	0.31	0.00	40.96	169.58	2.00	0.00	0.31	0.00
41.01	173.60	2.00	0.00	0.30	0.00	41.08	187.03	2.00	0.00	0.30	0.00
41.17	193.32	2.00	0.00	0.30	0.00	41.21	197.59	2.00	0.00	0.30	0.00
41.27	203.27	2.00	0.00	0.30	0.00	41.34	208.58	2.00	0.00	0.30	0.00
41.43	220.98	2.00	0.00	0.30	0.00	41.48	230.13	2.00	0.00	0.30	0.00
41.55	244.12	2.00	0.00	0.30	0.00	41.64	254.00	2.00	0.00	0.29	0.00
41.69	254.00	2.00	0.00	0.29	0.00	41.74	254.00	2.00	0.00	0.29	0.00
41.83	254.00	2.00	0.00	0.29	0.00	41.88	254.00	2.00	0.00	0.29	0.00
41.97	254.00	2.00	0.00	0.29	0.00	42.05	254.00	2.00	0.00	0.29	0.00
42.16	254.00	2.00	0.00	0.29	0.00	42.27	254.00	2.00	0.00	0.28	0.00
42.32	254.00	2.00	0.00	0.28	0.00	42.40	254.00	2.00	0.00	0.28	0.00
42.45	254.00	2.00	0.00	0.28	0.00	42.49	254.00	2.00	0.00	0.28	0.00
42.54	254.00	2.00	0.00	0.28	0.00	42.61	254.00	2.00	0.00	0.28	0.00
42.66	254.00	2.00	0.00	0.28	0.00	42.77	254.00	2.00	0.00	0.28	0.00
42.84	254.00	2.00	0.00	0.27	0.00	42.89	254.00	2.00	0.00	0.27	0.00
42.94	254.00	2.00	0.00	0.27	0.00	43.04	254.00	2.00	0.00	0.27	0.00
43.09	254.00	2.00	0.00	0.27	0.00	43.15	254.00	2.00	0.00	0.27	0.00
43.18	254.00	2.00	0.00	0.27	0.00	43.25	254.00	2.00	0.00	0.27	0.00
43.33	254.00	2.00	0.00	0.27	0.00	43.41	254.00	2.00	0.00	0.26	0.00
43.45	254.00	2.00	0.00	0.26	0.00	43.54	254.00	2.00	0.00	0.26	0.00
43.60	254.00	2.00	0.00	0.26	0.00	43.68	254.00	2.00	0.00	0.26	0.00
43.73	254.00	2.00	0.00	0.26	0.00	43.77	254.00	2.00	0.00	0.26	0.00
43.86	254.00	2.00	0.00	0.26	0.00	43.91	254.00	2.00	0.00	0.26	0.00
43.99	254.00	2.00	0.00	0.25	0.00	44.08	254.00	2.00	0.00	0.25	0.00
44.16	254.00	2.00	0.00	0.25	0.00	44.30	254.00	2.00	0.00	0.25	0.00
44.34	254.00	2.00	0.00	0.25	0.00	44.40	254.00	2.00	0.00	0.25	0.00
44.47	254.00	2.00	0.00	0.25	0.00	44.53	254.00	2.00	0.00	0.25	0.00
44.61	254.00	2.00	0.00	0.24	0.00	44.65	254.00	2.00	0.00	0.24	0.00
44.72	254.00	2.00	0.00	0.24	0.00	44.78	254.00	2.00	0.00	0.24	0.00
44.83	254.00	2.00	0.00	0.24	0.00	44.91	254.00	2.00	0.00	0.24	0.00
45.02	254.00	2.00	0.00	0.24	0.00	45.09	254.00	2.00	0.00	0.24	0.00
45.15	254.00	2.00	0.00	0.23	0.00	45.22	254.00	2.00	0.00	0.23	0.00
45.27	254.00	2.00	0.00	0.23	0.00	45.33	254.00	2.00	0.00	0.23	0.00
45.40	251.96	2.00	0.00	0.23	0.00	45.52	254.00	2.00	0.00	0.23	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
45.57	254.00	2.00	0.00	0.23	0.00	45.64	254.00	2.00	0.00	0.23	0.00
45.68	254.00	2.00	0.00	0.23	0.00	45.76	254.00	2.00	0.00	0.22	0.00
45.83	254.00	2.00	0.00	0.22	0.00	45.90	251.24	2.00	0.00	0.22	0.00
45.94	248.40	2.00	0.00	0.22	0.00	46.03	244.96	2.00	0.00	0.22	0.00
46.07	246.77	2.00	0.00	0.22	0.00	46.16	254.00	2.00	0.00	0.22	0.00
46.20	254.00	2.00	0.00	0.22	0.00	46.27	254.00	2.00	0.00	0.22	0.00
46.34	254.00	2.00	0.00	0.21	0.00	46.43	254.00	2.00	0.00	0.21	0.00
46.47	254.00	2.00	0.00	0.21	0.00	46.52	254.00	2.00	0.00	0.21	0.00
46.62	254.00	2.00	0.00	0.21	0.00	46.66	254.00	2.00	0.00	0.21	0.00
46.74	254.00	2.00	0.00	0.21	0.00	46.83	254.00	2.00	0.00	0.21	0.00
46.87	251.31	2.00	0.00	0.21	0.00	46.95	247.41	2.00	0.00	0.20	0.00
47.00	248.05	2.00	0.00	0.20	0.00	47.09	243.99	2.00	0.00	0.20	0.00
47.13	242.59	2.00	0.00	0.20	0.00	47.22	242.92	2.00	0.00	0.20	0.00
47.28	244.57	2.00	0.00	0.20	0.00	47.31	245.84	2.00	0.00	0.20	0.00
47.38	248.62	2.00	0.00	0.20	0.00	47.45	240.01	2.00	0.00	0.20	0.00
47.52	241.66	2.00	0.00	0.19	0.00	47.61	238.30	2.00	0.00	0.19	0.00
47.66	238.59	2.00	0.00	0.19	0.00	47.76	232.04	2.00	0.00	0.19	0.00
47.79	232.32	2.00	0.00	0.19	0.00	47.87	234.42	2.00	0.00	0.19	0.00
47.95	237.92	2.00	0.00	0.19	0.00	48.01	240.48	2.00	0.00	0.19	0.00
48.06	242.94	2.00	0.00	0.19	0.00	48.13	246.58	2.00	0.00	0.18	0.00
48.18	252.31	2.00	0.00	0.18	0.00	48.25	254.00	2.00	0.00	0.18	0.00
48.31	254.00	2.00	0.00	0.18	0.00	48.41	254.00	2.00	0.00	0.18	0.00
48.48	254.00	2.00	0.00	0.18	0.00	48.53	254.00	2.00	0.00	0.18	0.00
48.59	254.00	2.00	0.00	0.18	0.00	48.67	254.00	2.00	0.00	0.18	0.00
48.72	254.00	2.00	0.00	0.17	0.00	48.78	254.00	2.00	0.00	0.17	0.00
48.84	252.20	2.00	0.00	0.17	0.00	48.89	250.53	2.00	0.00	0.17	0.00
49.02	244.02	2.00	0.00	0.17	0.00	49.08	240.69	2.00	0.00	0.17	0.00
49.15	234.44	2.00	0.00	0.17	0.00	49.20	229.52	2.00	0.00	0.17	0.00
49.28	227.46	2.00	0.00	0.16	0.00	49.32	223.65	2.00	0.00	0.16	0.00
49.37	220.14	2.00	0.00	0.16	0.00	49.46	214.18	2.00	0.00	0.16	0.00
49.50	209.32	2.00	0.00	0.16	0.00	49.56	197.23	2.00	0.00	0.16	0.00
49.64	189.90	1.83	0.01	0.16	0.00	49.69	180.68	1.22	0.08	0.16	0.00
49.76	170.10	0.81	0.18	0.16	0.00	49.81	157.38	0.54	0.29	0.16	0.00
49.88	128.83	0.29	0.38	0.15	0.00	49.96	127.09	0.28	0.38	0.15	0.00
50.01	126.93	2.00	0.00	0.15	0.00	50.10	104.47	2.00	0.00	0.15	0.00
50.14	98.43	2.00	0.00	0.15	0.00	50.22	80.33	2.00	0.00	0.15	0.00
50.28	70.68	2.00	0.00	0.15	0.00	50.35	68.57	2.00	0.00	0.15	0.00

Total estimated settlement: 2.28

Abbreviations

$Q_{tn,cs}$:	Equivalent dean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

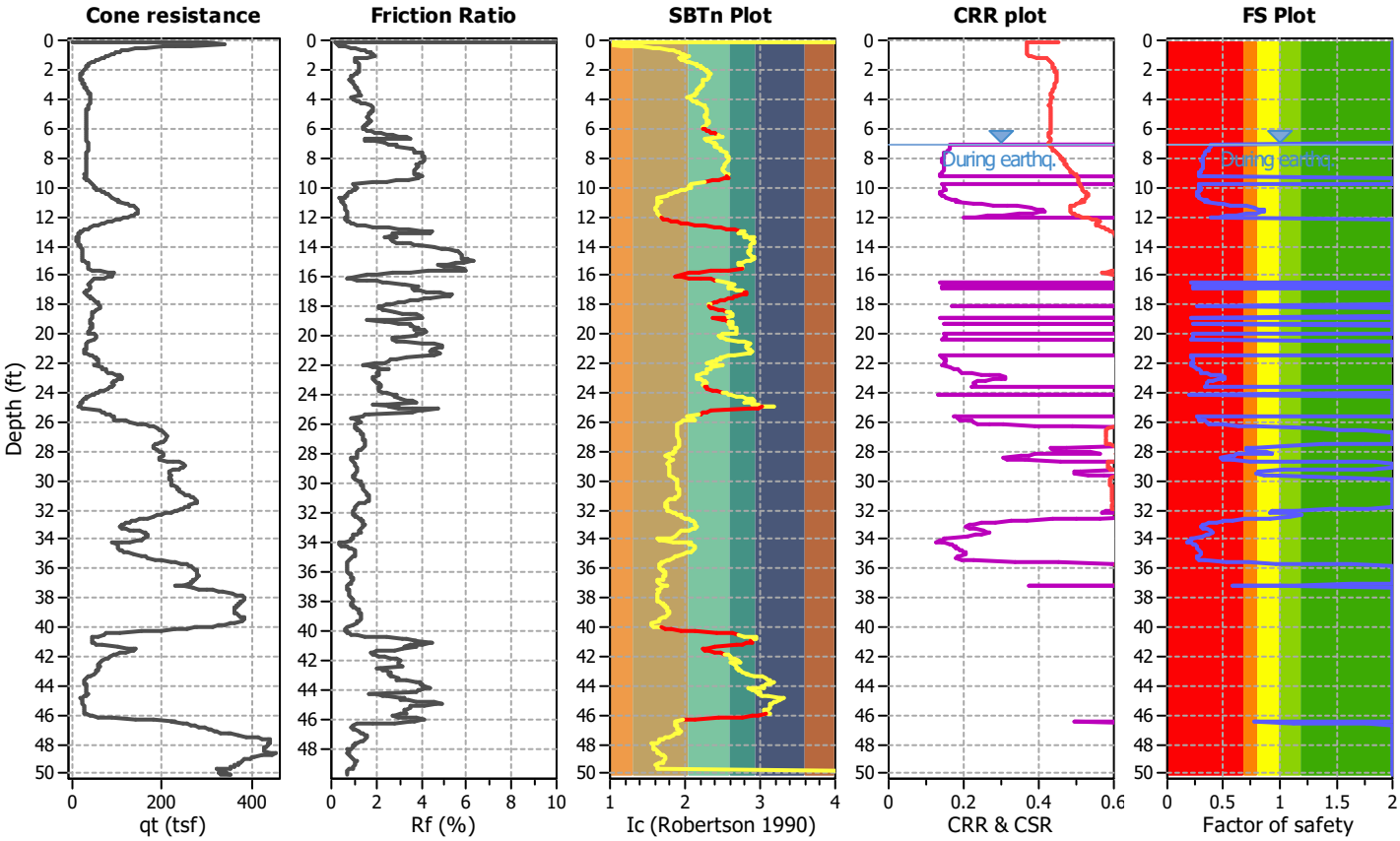
LIQUEFACTION ANALYSIS REPORT

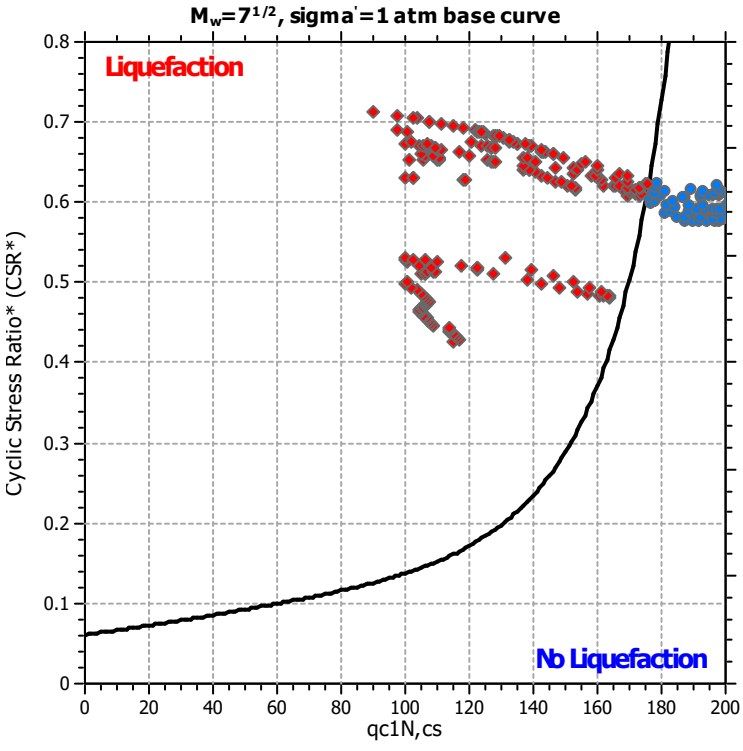
Project title : Southern California Geotechnical **Location : 9300 Hall Rd, Downey, CA**

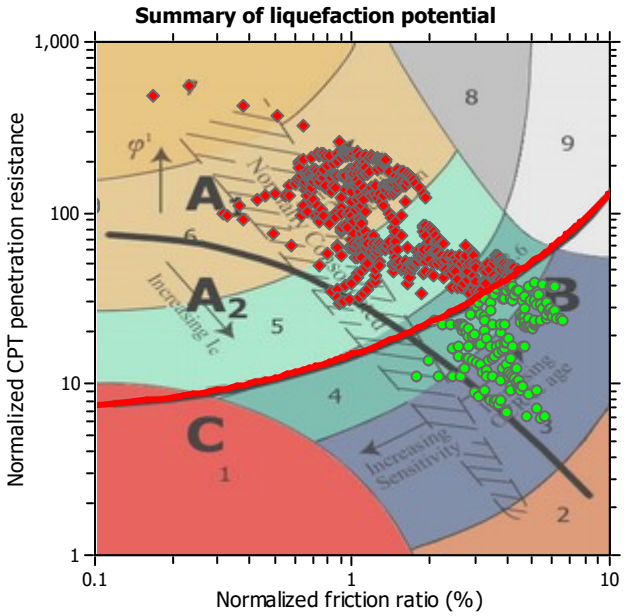
CPT file : CPT-4

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	80.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	7.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	1	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.88	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.79	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

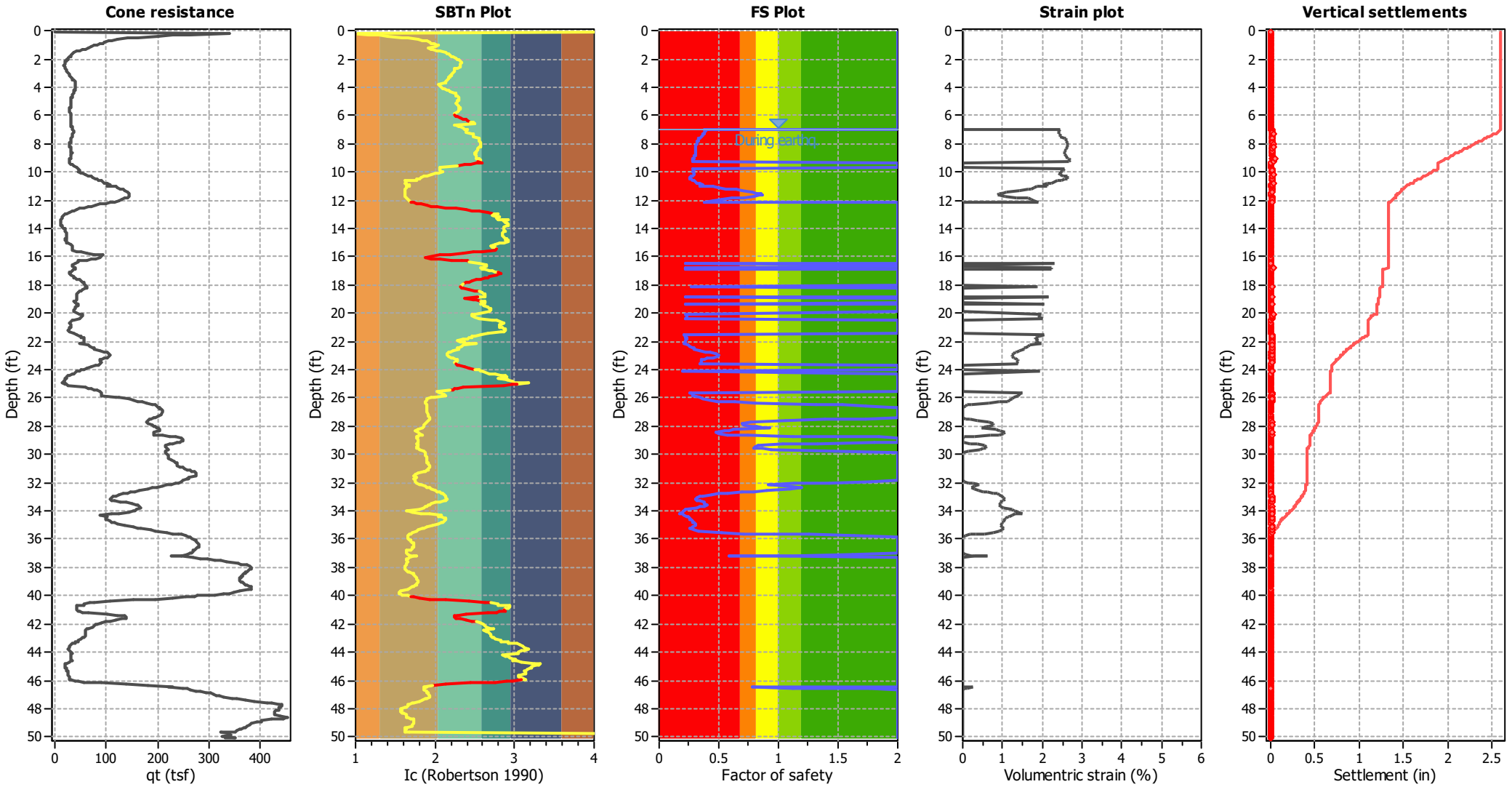






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
7.03	115.31	0.38	2.44	0.88	0.02	7.09	117.15	0.39	2.40	0.88	0.02
7.16	116.51	0.38	2.41	0.88	0.02	7.28	115.67	0.37	2.42	0.88	0.04
7.34	114.87	0.37	2.44	0.88	0.02	7.40	113.99	0.36	2.45	0.87	0.02
7.47	113.73	0.36	2.46	0.87	0.02	7.52	113.55	0.36	2.46	0.87	0.01
7.58	108.82	0.34	2.57	0.87	0.02	7.65	108.00	0.33	2.58	0.87	0.02
7.71	107.81	0.33	2.58	0.87	0.02	7.78	107.05	0.32	2.60	0.87	0.02
7.83	106.61	0.32	2.61	0.87	0.02	7.91	106.10	0.32	2.62	0.87	0.02
7.96	105.68	0.32	2.63	0.87	0.01	8.04	104.69	0.31	2.65	0.86	0.03
8.09	104.50	0.31	2.65	0.86	0.02	8.17	104.33	0.31	2.65	0.86	0.03
8.22	105.06	0.31	2.63	0.86	0.01	8.30	105.56	0.31	2.61	0.86	0.02
8.35	106.00	0.31	2.60	0.86	0.02	8.41	105.98	0.31	2.60	0.86	0.02
8.48	106.59	0.31	2.58	0.86	0.02	8.55	106.93	0.31	2.56	0.86	0.02
8.62	107.29	0.31	2.55	0.85	0.02	8.68	107.17	0.31	2.55	0.85	0.02
8.75	106.48	0.30	2.57	0.85	0.02	8.81	105.64	0.30	2.58	0.85	0.02
8.88	104.91	0.30	2.60	0.85	0.02	9.01	103.51	0.29	2.63	0.85	0.04
9.07	101.77	0.28	2.67	0.85	0.02	9.14	99.72	0.28	2.72	0.85	0.03
9.26	100.79	0.28	2.69	0.84	0.04	9.32	97.66	2.00	0.00	0.84	0.00
9.40	99.59	2.00	0.00	0.84	0.00	9.46	102.01	2.00	0.00	0.84	0.00
9.51	105.04	2.00	0.00	0.84	0.00	9.59	106.06	2.00	0.00	0.84	0.00
9.71	101.90	2.00	0.00	0.84	0.00	9.77	104.90	0.28	2.55	0.83	0.02
9.85	106.32	0.29	2.51	0.83	0.02	9.91	106.51	0.29	2.51	0.83	0.02
9.94	106.58	0.29	2.50	0.83	0.01	10.01	106.85	0.29	2.49	0.83	0.02
10.06	108.48	0.29	2.45	0.83	0.02	10.12	109.19	0.29	2.43	0.83	0.02
10.20	107.82	0.29	2.46	0.83	0.02	10.25	104.34	0.27	2.54	0.83	0.01
10.32	100.77	0.26	2.63	0.83	0.02	10.38	99.85	0.26	2.65	0.82	0.02
10.45	100.26	0.26	2.64	0.82	0.02	10.51	102.61	0.27	2.57	0.82	0.02
10.57	106.09	0.28	2.48	0.82	0.02	10.64	109.75	0.29	2.39	0.82	0.02
10.77	117.57	0.32	2.22	0.82	0.03	10.83	122.43	0.34	2.12	0.82	0.02
10.91	127.43	0.37	2.03	0.82	0.02	10.93	122.20	0.34	2.12	0.81	0.01
10.96	122.32	0.34	2.12	0.81	0.01	11.05	138.15	0.45	1.85	0.81	0.02
11.11	142.54	0.49	1.78	0.81	0.01	11.17	148.34	0.56	1.70	0.81	0.01
11.23	153.44	0.64	1.64	0.81	0.01	11.29	156.71	0.70	1.41	0.81	0.01
11.41	160.45	0.78	1.10	0.81	0.02	11.48	161.98	0.81	1.00	0.81	0.01
11.55	163.45	0.85	0.90	0.80	0.01	11.61	163.88	0.86	0.88	0.80	0.01
11.67	163.19	0.84	0.92	0.80	0.01	11.74	161.30	0.79	1.05	0.80	0.01
11.82	157.44	0.70	1.37	0.80	0.01	11.88	152.33	0.61	1.63	0.80	0.01
11.95	146.17	0.52	1.70	0.80	0.01	12.01	139.41	0.45	1.79	0.80	0.01
12.09	131.11	0.38	1.92	0.80	0.02	12.14	122.69	2.00	0.00	0.79	0.00
12.21	113.14	2.00	0.00	0.79	0.00	12.27	106.44	2.00	0.00	0.79	0.00
12.32	110.75	2.00	0.00	0.79	0.00	12.41	112.49	2.00	0.00	0.79	0.00
12.47	115.99	2.00	0.00	0.79	0.00	12.54	116.66	2.00	0.00	0.79	0.00
12.60	112.93	2.00	0.00	0.79	0.00	12.67	107.63	2.00	0.00	0.79	0.00
12.72	104.06	2.00	0.00	0.78	0.00	12.80	99.49	2.00	0.00	0.78	0.00
12.87	32.12	2.00	0.00	0.78	0.00	12.93	27.21	2.00	0.00	0.78	0.00
12.99	22.93	2.00	0.00	0.78	0.00	13.07	19.39	2.00	0.00	0.78	0.00
13.12	17.44	2.00	0.00	0.78	0.00	13.20	15.47	2.00	0.00	0.78	0.00
13.26	15.54	2.00	0.00	0.78	0.00	13.33	14.86	2.00	0.00	0.77	0.00
13.34	11.88	2.00	0.00	0.77	0.00	13.41	13.33	2.00	0.00	0.77	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
13.46	13.30	2.00	0.00	0.77	0.00	13.55	12.83	2.00	0.00	0.77	0.00
13.62	12.48	2.00	0.00	0.77	0.00	13.68	12.98	2.00	0.00	0.77	0.00
13.74	14.10	2.00	0.00	0.77	0.00	13.80	15.21	2.00	0.00	0.77	0.00
13.86	17.15	2.00	0.00	0.77	0.00	13.98	20.05	2.00	0.00	0.76	0.00
14.03	20.62	2.00	0.00	0.76	0.00	14.09	21.49	2.00	0.00	0.76	0.00
14.16	22.45	2.00	0.00	0.76	0.00	14.21	23.42	2.00	0.00	0.76	0.00
14.28	24.47	2.00	0.00	0.76	0.00	14.34	24.92	2.00	0.00	0.76	0.00
14.40	25.27	2.00	0.00	0.76	0.00	14.46	25.41	2.00	0.00	0.75	0.00
14.52	25.35	2.00	0.00	0.75	0.00	14.63	24.04	2.00	0.00	0.75	0.00
14.69	23.30	2.00	0.00	0.75	0.00	14.74	22.46	2.00	0.00	0.75	0.00
14.80	23.10	2.00	0.00	0.75	0.00	14.87	22.06	2.00	0.00	0.75	0.00
14.92	22.89	2.00	0.00	0.75	0.00	15.00	25.30	2.00	0.00	0.75	0.00
15.05	28.31	2.00	0.00	0.74	0.00	15.12	31.67	2.00	0.00	0.74	0.00
15.18	34.91	2.00	0.00	0.74	0.00	15.23	36.50	2.00	0.00	0.74	0.00
15.30	36.30	2.00	0.00	0.74	0.00	15.35	34.69	2.00	0.00	0.74	0.00
15.49	35.11	2.00	0.00	0.74	0.00	15.54	35.05	2.00	0.00	0.74	0.00
15.60	108.77	2.00	0.00	0.74	0.00	15.66	115.22	2.00	0.00	0.73	0.00
15.73	125.67	2.00	0.00	0.73	0.00	15.80	137.26	2.00	0.00	0.73	0.00
15.86	143.40	2.00	0.00	0.73	0.00	16.03	104.32	2.00	0.00	0.73	0.00
16.11	113.06	2.00	0.00	0.73	0.00	16.16	117.63	2.00	0.00	0.73	0.00
16.23	118.13	2.00	0.00	0.72	0.00	16.26	108.53	2.00	0.00	0.72	0.00
16.30	105.74	2.00	0.00	0.72	0.00	16.34	104.81	2.00	0.00	0.72	0.00
16.46	100.14	2.00	0.00	0.72	0.00	16.49	100.23	0.22	2.31	0.72	0.01
16.57	34.66	2.00	0.00	0.72	0.00	16.62	34.60	2.00	0.00	0.72	0.00
16.77	102.74	0.22	2.24	0.72	0.04	16.84	102.45	0.22	2.24	0.71	0.02
16.88	37.67	2.00	0.00	0.71	0.00	16.95	34.71	2.00	0.00	0.71	0.00
17.01	32.43	2.00	0.00	0.71	0.00	17.06	30.61	2.00	0.00	0.71	0.00
17.12	28.70	2.00	0.00	0.71	0.00	17.19	27.91	2.00	0.00	0.71	0.00
17.23	28.97	2.00	0.00	0.71	0.00	17.29	31.13	2.00	0.00	0.71	0.00
17.41	35.24	2.00	0.00	0.70	0.00	17.46	36.84	2.00	0.00	0.70	0.00
17.51	38.98	2.00	0.00	0.70	0.00	17.57	104.66	2.00	0.00	0.70	0.00
17.63	108.17	2.00	0.00	0.70	0.00	17.69	110.94	2.00	0.00	0.70	0.00
17.76	112.74	2.00	0.00	0.70	0.00	17.81	113.91	2.00	0.00	0.70	0.00
17.85	115.15	2.00	0.00	0.70	0.00	17.93	115.97	2.00	0.00	0.70	0.00
17.98	116.88	2.00	0.00	0.70	0.00	18.08	118.05	0.27	1.87	0.69	0.02
18.14	118.74	0.27	1.86	0.69	0.01	18.20	119.24	2.00	0.00	0.69	0.00
18.25	118.69	2.00	0.00	0.69	0.00	18.34	114.33	2.00	0.00	0.69	0.00
18.42	110.70	2.00	0.00	0.69	0.00	18.47	107.49	2.00	0.00	0.69	0.00
18.52	104.81	2.00	0.00	0.69	0.00	18.58	40.91	2.00	0.00	0.69	0.00
18.64	40.66	2.00	0.00	0.68	0.00	18.73	39.93	2.00	0.00	0.68	0.00
18.80	40.40	2.00	0.00	0.68	0.00	18.85	101.49	0.21	2.15	0.68	0.01
18.91	97.78	2.00	0.00	0.68	0.00	19.00	98.75	2.00	0.00	0.68	0.00
19.04	99.21	2.00	0.00	0.68	0.00	19.13	98.04	2.00	0.00	0.68	0.00
19.18	34.89	2.00	0.00	0.68	0.00	19.24	37.46	2.00	0.00	0.67	0.00
19.33	105.38	0.22	2.05	0.67	0.02	19.37	39.96	2.00	0.00	0.67	0.00
19.46	39.26	2.00	0.00	0.67	0.00	19.50	40.43	2.00	0.00	0.67	0.00
19.57	36.61	2.00	0.00	0.67	0.00	19.65	35.40	2.00	0.00	0.67	0.00
19.69	35.19	2.00	0.00	0.67	0.00	19.77	33.98	2.00	0.00	0.66	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
19.86	33.90	2.00	0.00	0.66	0.00	19.90	33.86	2.00	0.00	0.66	0.00
20.03	106.44	0.22	1.99	0.66	0.03	20.08	110.06	0.23	1.92	0.66	0.01
20.17	110.88	0.24	1.90	0.66	0.02	20.21	110.54	0.23	1.90	0.66	0.01
20.29	108.55	0.23	1.94	0.66	0.02	20.35	104.92	0.22	2.00	0.66	0.01
20.47	33.19	2.00	0.00	0.65	0.00	20.52	29.73	2.00	0.00	0.65	0.00
20.65	25.90	2.00	0.00	0.65	0.00	20.70	25.53	2.00	0.00	0.65	0.00
20.77	26.49	2.00	0.00	0.65	0.00	20.83	27.56	2.00	0.00	0.65	0.00
20.89	27.59	2.00	0.00	0.65	0.00	20.96	26.62	2.00	0.00	0.64	0.00
21.01	25.49	2.00	0.00	0.64	0.00	21.07	24.53	2.00	0.00	0.64	0.00
21.14	24.07	2.00	0.00	0.64	0.00	21.21	23.69	2.00	0.00	0.64	0.00
21.27	24.24	2.00	0.00	0.64	0.00	21.32	25.45	2.00	0.00	0.64	0.00
21.44	33.29	2.00	0.00	0.64	0.00	21.50	99.70	0.20	2.05	0.64	0.01
21.57	104.42	0.21	1.95	0.63	0.02	21.62	107.03	0.22	1.90	0.63	0.01
21.69	106.94	0.22	1.90	0.63	0.01	21.76	109.86	0.23	1.84	0.63	0.02
21.81	111.22	0.23	1.81	0.63	0.01	21.87	109.29	0.23	1.84	0.63	0.01
21.93	105.71	0.22	1.91	0.63	0.01	21.99	106.88	0.22	1.88	0.63	0.01
22.06	107.98	0.22	1.86	0.63	0.02	22.11	109.11	0.23	1.84	0.63	0.01
22.16	106.65	0.22	1.88	0.62	0.01	22.18	101.79	0.21	1.97	0.62	0.00
22.28	116.79	0.25	1.70	0.62	0.02	22.32	119.87	0.26	1.65	0.62	0.01
22.42	125.63	0.28	1.57	0.62	0.02	22.46	126.94	0.29	1.55	0.62	0.01
22.54	127.52	0.29	1.54	0.62	0.01	22.59	128.34	0.30	1.52	0.62	0.01
22.68	136.88	0.35	1.42	0.62	0.02	22.74	142.29	0.39	1.35	0.61	0.01
22.79	146.72	0.43	1.31	0.61	0.01	22.85	150.50	0.47	1.27	0.61	0.01
22.94	153.24	0.51	1.24	0.61	0.01	23.00	153.09	0.50	1.24	0.61	0.01
23.08	151.68	0.48	1.25	0.61	0.01	23.12	148.80	0.45	1.27	0.61	0.01
23.20	144.65	0.41	1.31	0.61	0.01	23.26	140.62	0.37	1.35	0.61	0.01
23.32	137.55	0.35	1.38	0.60	0.01	23.38	137.47	0.35	1.38	0.60	0.01
23.44	139.01	0.36	1.36	0.60	0.01	23.51	138.85	0.36	1.36	0.60	0.01
23.56	136.56	0.34	1.39	0.60	0.01	23.63	133.05	2.00	0.00	0.60	0.00
23.69	129.66	2.00	0.00	0.60	0.00	23.82	120.84	2.00	0.00	0.60	0.00
23.87	114.94	2.00	0.00	0.60	0.00	23.95	109.22	2.00	0.00	0.59	0.00
24.00	104.65	2.00	0.00	0.59	0.00	24.08	100.61	0.20	1.89	0.59	0.02
24.13	97.23	0.19	1.95	0.59	0.01	24.27	30.01	2.00	0.00	0.59	0.00
24.33	26.74	2.00	0.00	0.59	0.00	24.39	23.74	2.00	0.00	0.59	0.00
24.44	21.06	2.00	0.00	0.59	0.00	24.52	19.17	2.00	0.00	0.58	0.00
24.57	17.75	2.00	0.00	0.58	0.00	24.63	16.80	2.00	0.00	0.58	0.00
24.71	15.95	2.00	0.00	0.58	0.00	24.75	15.16	2.00	0.00	0.58	0.00
24.82	14.38	2.00	0.00	0.58	0.00	24.89	15.23	2.00	0.00	0.58	0.00
24.90	11.70	2.00	0.00	0.58	0.00	24.97	15.32	2.00	0.00	0.58	0.00
25.02	17.21	2.00	0.00	0.58	0.00	25.13	20.91	2.00	0.00	0.57	0.00
25.24	107.04	2.00	0.00	0.57	0.00	25.30	111.78	2.00	0.00	0.57	0.00
25.36	114.98	2.00	0.00	0.57	0.00	25.42	119.25	2.00	0.00	0.57	0.00
25.48	123.76	2.00	0.00	0.57	0.00	25.55	113.69	2.00	0.00	0.57	0.00
25.60	120.47	0.26	1.50	0.57	0.01	25.66	123.77	0.27	1.45	0.57	0.01
25.73	125.69	0.28	1.42	0.56	0.01	25.78	126.61	0.28	1.41	0.56	0.01
25.83	126.89	0.28	1.41	0.56	0.01	25.86	128.19	0.29	1.39	0.56	0.00
25.95	136.57	0.34	1.29	0.56	0.01	25.99	138.20	0.35	1.27	0.56	0.01
26.10	140.66	0.36	1.24	0.56	0.02	26.16	147.09	0.42	1.18	0.56	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
26.21	152.64	0.48	1.13	0.56	0.01	26.29	161.90	0.63	0.90	0.55	0.01
26.34	169.08	0.80	0.65	0.55	0.00	26.47	181.45	1.32	0.22	0.55	0.00
26.52	184.80	1.53	0.13	0.55	0.00	26.58	187.43	1.73	0.07	0.55	0.00
26.65	190.16	1.97	0.01	0.55	0.00	26.70	192.01	2.00	0.00	0.55	0.00
26.76	194.16	2.00	0.00	0.55	0.00	26.82	196.78	2.00	0.00	0.55	0.00
26.88	197.96	2.00	0.00	0.54	0.00	26.95	199.49	2.00	0.00	0.54	0.00
27.00	201.24	2.00	0.00	0.54	0.00	27.18	202.62	2.00	0.00	0.54	0.00
27.31	198.70	2.00	0.00	0.54	0.00	27.36	196.26	2.00	0.00	0.54	0.00
27.43	192.26	2.00	0.00	0.54	0.00	27.48	187.60	1.73	0.06	0.53	0.00
27.54	182.91	1.39	0.18	0.53	0.00	27.62	176.64	1.06	0.35	0.53	0.00
27.72	168.19	0.77	0.67	0.53	0.01	27.80	165.31	0.70	0.76	0.53	0.01
27.91	165.51	0.70	0.75	0.53	0.01	27.97	168.24	0.77	0.66	0.53	0.01
28.02	169.74	0.82	0.60	0.53	0.00	28.08	171.72	0.88	0.52	0.52	0.00
28.15	173.25	0.93	0.46	0.52	0.00	28.20	161.49	0.62	0.86	0.52	0.01
28.27	160.01	0.59	0.90	0.52	0.01	28.33	157.90	0.55	0.96	0.52	0.01
28.46	152.40	0.48	1.06	0.52	0.02	28.51	153.93	0.50	1.04	0.52	0.01
28.59	159.40	0.58	0.91	0.52	0.01	28.64	167.01	0.74	0.70	0.51	0.00
28.69	178.00	1.12	0.30	0.51	0.00	28.76	189.16	1.85	0.03	0.51	0.00
28.81	197.06	2.00	0.00	0.51	0.00	28.94	201.89	2.00	0.00	0.51	0.00
29.01	200.62	2.00	0.00	0.51	0.00	29.07	197.72	2.00	0.00	0.51	0.00
29.12	193.95	2.00	0.00	0.51	0.00	29.18	188.68	1.80	0.04	0.51	0.00
29.25	182.07	1.33	0.19	0.50	0.00	29.29	176.21	1.04	0.35	0.50	0.00
29.35	170.36	0.83	0.55	0.50	0.00	29.42	169.47	0.80	0.59	0.50	0.01
29.48	169.78	0.81	0.58	0.50	0.00	29.55	169.33	0.80	0.59	0.50	0.00
29.60	171.66	0.87	0.50	0.50	0.00	29.68	173.67	0.94	0.43	0.50	0.00
29.80	184.34	1.47	0.14	0.49	0.00	29.86	191.25	2.00	0.00	0.49	0.00
29.91	193.65	2.00	0.00	0.49	0.00	29.98	195.95	2.00	0.00	0.49	0.00
30.04	197.65	2.00	0.00	0.49	0.00	30.09	199.01	2.00	0.00	0.49	0.00
30.17	201.96	2.00	0.00	0.49	0.00	30.22	203.67	2.00	0.00	0.49	0.00
30.29	205.99	2.00	0.00	0.49	0.00	30.35	208.26	2.00	0.00	0.49	0.00
30.48	214.68	2.00	0.00	0.48	0.00	30.54	218.33	2.00	0.00	0.48	0.00
30.62	222.85	2.00	0.00	0.48	0.00	30.69	226.48	2.00	0.00	0.48	0.00
30.75	230.69	2.00	0.00	0.48	0.00	30.88	237.54	2.00	0.00	0.48	0.00
30.92	240.38	2.00	0.00	0.48	0.00	30.99	243.14	2.00	0.00	0.47	0.00
31.05	243.67	2.00	0.00	0.47	0.00	31.11	243.22	2.00	0.00	0.47	0.00
31.18	240.13	2.00	0.00	0.47	0.00	31.24	240.02	2.00	0.00	0.47	0.00
31.31	218.47	2.00	0.00	0.47	0.00	31.36	218.27	2.00	0.00	0.47	0.00
31.50	217.53	2.00	0.00	0.47	0.00	31.54	216.42	2.00	0.00	0.47	0.00
31.60	202.13	2.00	0.00	0.46	0.00	31.67	200.62	2.00	0.00	0.46	0.00
31.71	202.36	2.00	0.00	0.46	0.00	31.77	201.25	2.00	0.00	0.46	0.00
31.85	193.29	2.00	0.00	0.46	0.00	31.92	188.76	1.78	0.04	0.46	0.00
31.99	184.00	1.43	0.14	0.46	0.00	32.04	178.74	1.14	0.26	0.46	0.00
32.11	173.89	0.93	0.40	0.46	0.00	32.17	173.37	0.92	0.41	0.45	0.00
32.25	177.27	1.07	0.30	0.45	0.00	32.30	179.61	1.18	0.24	0.45	0.00
32.35	179.94	1.19	0.23	0.45	0.00	32.43	177.86	1.09	0.28	0.45	0.00
32.54	173.19	0.91	0.41	0.45	0.01	32.61	169.65	0.80	0.53	0.45	0.00
32.66	165.47	0.69	0.64	0.45	0.00	32.74	159.78	0.58	0.77	0.45	0.01
32.78	155.01	0.50	0.89	0.44	0.00	32.84	149.45	0.44	0.92	0.44	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
32.91	142.60	0.37	0.97	0.44	0.01	32.97	138.50	0.34	1.00	0.44	0.01
33.04	135.23	0.32	1.03	0.44	0.01	33.15	132.59	0.30	1.04	0.44	0.01
33.22	134.89	0.32	1.02	0.44	0.01	33.28	138.91	0.34	0.99	0.44	0.01
33.35	143.42	0.38	0.95	0.43	0.01	33.40	143.43	0.38	0.95	0.43	0.01
33.46	143.45	0.38	0.94	0.43	0.01	33.53	146.19	0.40	0.92	0.43	0.01
33.58	146.30	0.40	0.92	0.43	0.01	33.66	142.81	0.37	0.94	0.43	0.01
33.71	139.28	0.35	0.97	0.43	0.01	33.77	133.98	0.31	1.01	0.43	0.01
33.90	110.96	0.22	1.23	0.43	0.02	33.97	107.30	0.21	1.27	0.42	0.01
34.01	103.54	0.20	1.31	0.42	0.01	34.09	97.68	0.19	1.39	0.42	0.01
34.20	90.06	0.18	1.50	0.42	0.02	34.24	102.30	0.20	1.32	0.42	0.01
34.26	107.56	0.21	1.25	0.42	0.00	34.35	115.31	0.23	1.16	0.42	0.01
34.40	118.39	0.24	1.12	0.42	0.01	34.51	121.91	0.26	1.08	0.42	0.01
34.55	122.28	0.26	1.08	0.41	0.00	34.62	123.22	0.26	1.07	0.41	0.01
34.66	124.81	0.27	1.05	0.41	0.01	34.76	127.32	0.28	1.02	0.41	0.01
34.81	128.78	0.28	1.01	0.41	0.01	34.86	130.47	0.29	0.99	0.41	0.01
34.93	132.29	0.30	0.97	0.41	0.01	35.02	132.54	0.30	0.97	0.41	0.01
35.15	127.87	0.28	1.00	0.40	0.01	35.21	124.51	0.27	1.03	0.40	0.01
35.27	123.58	0.26	1.03	0.40	0.01	35.37	129.48	0.29	0.98	0.40	0.01
35.42	137.72	0.33	0.91	0.40	0.01	35.52	156.52	0.52	0.77	0.40	0.01
35.59	166.65	0.71	0.55	0.40	0.00	35.63	174.84	0.96	0.33	0.40	0.00
35.68	181.37	1.25	0.18	0.40	0.00	35.74	187.27	1.64	0.07	0.39	0.00
35.81	192.31	2.00	0.00	0.39	0.00	35.85	196.12	2.00	0.00	0.39	0.00
35.90	198.19	2.00	0.00	0.39	0.00	36.03	202.72	2.00	0.00	0.39	0.00
36.07	204.73	2.00	0.00	0.39	0.00	36.12	206.02	2.00	0.00	0.39	0.00
36.24	207.24	2.00	0.00	0.39	0.00	36.29	207.02	2.00	0.00	0.38	0.00
36.38	208.82	2.00	0.00	0.38	0.00	36.44	209.39	2.00	0.00	0.38	0.00
36.56	208.13	2.00	0.00	0.38	0.00	36.60	207.22	2.00	0.00	0.38	0.00
36.71	202.98	2.00	0.00	0.38	0.00	36.78	200.53	2.00	0.00	0.38	0.00
36.82	199.01	2.00	0.00	0.38	0.00	36.87	197.32	2.00	0.00	0.38	0.00
36.93	195.16	2.00	0.00	0.37	0.00	36.98	192.44	2.00	0.00	0.37	0.00
37.04	187.18	1.63	0.06	0.37	0.00	37.13	178.31	1.10	0.23	0.37	0.00
37.18	160.30	0.58	0.63	0.37	0.00	37.23	175.89	1.00	0.28	0.37	0.00
37.32	196.96	2.00	0.00	0.37	0.00	37.37	210.42	2.00	0.00	0.37	0.00
37.44	223.73	2.00	0.00	0.37	0.00	37.49	236.56	2.00	0.00	0.36	0.00
37.54	247.90	2.00	0.00	0.36	0.00	37.62	254.00	2.00	0.00	0.36	0.00
37.72	254.00	2.00	0.00	0.36	0.00	37.79	254.00	2.00	0.00	0.36	0.00
37.84	254.00	2.00	0.00	0.36	0.00	37.90	254.00	2.00	0.00	0.36	0.00
37.97	254.00	2.00	0.00	0.36	0.00	38.10	254.00	2.00	0.00	0.35	0.00
38.15	254.00	2.00	0.00	0.35	0.00	38.21	254.00	2.00	0.00	0.35	0.00
38.28	254.00	2.00	0.00	0.35	0.00	38.34	254.00	2.00	0.00	0.35	0.00
38.41	254.00	2.00	0.00	0.35	0.00	38.46	254.00	2.00	0.00	0.35	0.00
38.52	254.00	2.00	0.00	0.35	0.00	38.59	254.00	2.00	0.00	0.35	0.00
38.64	254.00	2.00	0.00	0.35	0.00	38.70	254.00	2.00	0.00	0.34	0.00
38.76	254.00	2.00	0.00	0.34	0.00	38.81	254.00	2.00	0.00	0.34	0.00
38.85	254.00	2.00	0.00	0.34	0.00	38.91	254.00	2.00	0.00	0.34	0.00
38.99	254.00	2.00	0.00	0.34	0.00	39.09	254.00	2.00	0.00	0.34	0.00
39.16	254.00	2.00	0.00	0.34	0.00	39.21	254.00	2.00	0.00	0.34	0.00
39.27	254.00	2.00	0.00	0.33	0.00	39.34	254.00	2.00	0.00	0.33	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
39.39	254.00	2.00	0.00	0.33	0.00	39.52	254.00	2.00	0.00	0.33	0.00
39.57	254.00	2.00	0.00	0.33	0.00	39.69	254.00	2.00	0.00	0.33	0.00
39.75	254.00	2.00	0.00	0.33	0.00	39.82	254.00	2.00	0.00	0.33	0.00
39.89	245.62	2.00	0.00	0.32	0.00	39.96	231.03	2.00	0.00	0.32	0.00
39.97	198.21	2.00	0.00	0.32	0.00	40.03	193.12	2.00	0.00	0.32	0.00
40.11	178.09	2.00	0.00	0.32	0.00	40.17	161.05	2.00	0.00	0.32	0.00
40.24	171.60	2.00	0.00	0.32	0.00	40.32	165.66	2.00	0.00	0.32	0.00
40.39	138.16	2.00	0.00	0.32	0.00	40.45	48.99	2.00	0.00	0.31	0.00
40.49	43.06	2.00	0.00	0.31	0.00	40.61	35.04	2.00	0.00	0.31	0.00
40.66	35.01	2.00	0.00	0.31	0.00	40.70	26.36	2.00	0.00	0.31	0.00
40.76	26.30	2.00	0.00	0.31	0.00	40.86	26.25	2.00	0.00	0.31	0.00
40.93	26.18	2.00	0.00	0.31	0.00	40.99	26.15	2.00	0.00	0.31	0.00
41.05	27.31	2.00	0.00	0.30	0.00	41.11	28.81	2.00	0.00	0.30	0.00
41.16	32.86	2.00	0.00	0.30	0.00	41.23	39.90	2.00	0.00	0.30	0.00
41.33	130.21	2.00	0.00	0.30	0.00	41.41	145.54	2.00	0.00	0.30	0.00
41.46	156.74	2.00	0.00	0.30	0.00	41.51	160.51	2.00	0.00	0.30	0.00
41.59	160.36	2.00	0.00	0.30	0.00	41.64	155.37	2.00	0.00	0.29	0.00
41.70	146.87	2.00	0.00	0.29	0.00	41.78	138.22	2.00	0.00	0.29	0.00
41.81	131.18	2.00	0.00	0.29	0.00	41.88	125.60	2.00	0.00	0.29	0.00
42.01	52.26	2.00	0.00	0.29	0.00	42.08	50.33	2.00	0.00	0.29	0.00
42.12	48.11	2.00	0.00	0.29	0.00	42.21	45.63	2.00	0.00	0.28	0.00
42.32	40.47	2.00	0.00	0.28	0.00	42.39	38.38	2.00	0.00	0.28	0.00
42.44	36.72	2.00	0.00	0.28	0.00	42.52	35.71	2.00	0.00	0.28	0.00
42.57	35.40	2.00	0.00	0.28	0.00	42.64	35.63	2.00	0.00	0.28	0.00
42.69	35.92	2.00	0.00	0.28	0.00	42.75	35.75	2.00	0.00	0.28	0.00
42.80	35.72	2.00	0.00	0.27	0.00	42.85	35.55	2.00	0.00	0.27	0.00
42.94	33.78	2.00	0.00	0.27	0.00	42.99	32.14	2.00	0.00	0.27	0.00
43.05	31.13	2.00	0.00	0.27	0.00	43.20	27.34	2.00	0.00	0.27	0.00
43.24	27.32	2.00	0.00	0.27	0.00	43.29	23.22	2.00	0.00	0.27	0.00
43.33	23.20	2.00	0.00	0.27	0.00	43.39	19.10	2.00	0.00	0.26	0.00
43.46	17.47	2.00	0.00	0.26	0.00	43.51	17.46	2.00	0.00	0.26	0.00
43.60	15.95	2.00	0.00	0.26	0.00	43.66	15.60	2.00	0.00	0.26	0.00
43.72	15.87	2.00	0.00	0.26	0.00	43.77	14.56	2.00	0.00	0.26	0.00
43.87	15.78	2.00	0.00	0.26	0.00	43.93	16.96	2.00	0.00	0.26	0.00
43.99	18.03	2.00	0.00	0.25	0.00	44.09	18.87	2.00	0.00	0.25	0.00
44.13	18.23	2.00	0.00	0.25	0.00	44.19	18.17	2.00	0.00	0.25	0.00
44.26	18.17	2.00	0.00	0.25	0.00	44.35	18.17	2.00	0.00	0.25	0.00
44.39	18.16	2.00	0.00	0.25	0.00	44.48	18.15	2.00	0.00	0.25	0.00
44.53	18.14	2.00	0.00	0.25	0.00	44.57	19.61	2.00	0.00	0.24	0.00
44.66	17.60	2.00	0.00	0.24	0.00	44.69	16.07	2.00	0.00	0.24	0.00
44.79	12.34	2.00	0.00	0.24	0.00	44.84	10.97	2.00	0.00	0.24	0.00
44.89	10.91	2.00	0.00	0.24	0.00	44.96	11.11	2.00	0.00	0.24	0.00
45.05	11.42	2.00	0.00	0.24	0.00	45.10	11.63	2.00	0.00	0.24	0.00
45.16	12.01	2.00	0.00	0.23	0.00	45.25	12.97	2.00	0.00	0.23	0.00
45.29	13.35	2.00	0.00	0.23	0.00	45.37	13.66	2.00	0.00	0.23	0.00
45.42	13.55	2.00	0.00	0.23	0.00	45.54	13.61	2.00	0.00	0.23	0.00
45.58	13.58	2.00	0.00	0.23	0.00	45.63	14.28	2.00	0.00	0.23	0.00
45.67	14.88	2.00	0.00	0.23	0.00	45.78	15.57	2.00	0.00	0.22	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
45.85	15.56	2.00	0.00	0.22	0.00	45.90	15.55	2.00	0.00	0.22	0.00
45.96	17.70	2.00	0.00	0.22	0.00	46.03	21.88	2.00	0.00	0.22	0.00
46.08	25.54	2.00	0.00	0.22	0.00	46.15	32.95	2.00	0.00	0.22	0.00
46.20	117.71	2.00	0.00	0.22	0.00	46.27	145.60	2.00	0.00	0.22	0.00
46.33	155.53	2.00	0.00	0.21	0.00	46.46	163.87	2.00	0.00	0.21	0.00
46.48	169.42	0.78	0.26	0.21	0.00	46.56	178.87	1.12	0.12	0.21	0.00
46.62	189.25	1.77	0.02	0.21	0.00	46.66	197.57	2.00	0.00	0.21	0.00
46.74	219.07	2.00	0.00	0.21	0.00	46.79	227.80	2.00	0.00	0.21	0.00
46.87	244.29	2.00	0.00	0.21	0.00	46.92	254.00	2.00	0.00	0.20	0.00
46.99	254.00	2.00	0.00	0.20	0.00	47.05	254.00	2.00	0.00	0.20	0.00
47.11	254.00	2.00	0.00	0.20	0.00	47.18	254.00	2.00	0.00	0.20	0.00
47.28	254.00	2.00	0.00	0.20	0.00	47.32	254.00	2.00	0.00	0.20	0.00
47.38	254.00	2.00	0.00	0.20	0.00	47.45	254.00	2.00	0.00	0.20	0.00
47.56	254.00	2.00	0.00	0.19	0.00	47.59	254.00	2.00	0.00	0.19	0.00
47.67	254.00	2.00	0.00	0.19	0.00	47.71	254.00	2.00	0.00	0.19	0.00
47.85	254.00	2.00	0.00	0.19	0.00	47.89	254.00	2.00	0.00	0.19	0.00
47.91	254.00	2.00	0.00	0.19	0.00	47.98	254.00	2.00	0.00	0.19	0.00
48.07	254.00	2.00	0.00	0.19	0.00	48.12	254.00	2.00	0.00	0.18	0.00
48.16	254.00	2.00	0.00	0.18	0.00	48.24	254.00	2.00	0.00	0.18	0.00
48.31	254.00	2.00	0.00	0.18	0.00	48.36	254.00	2.00	0.00	0.18	0.00
48.45	254.00	2.00	0.00	0.18	0.00	48.55	254.00	2.00	0.00	0.18	0.00
48.61	254.00	2.00	0.00	0.18	0.00	48.64	254.00	2.00	0.00	0.18	0.00
48.73	254.00	2.00	0.00	0.17	0.00	48.77	254.00	2.00	0.00	0.17	0.00
48.85	254.00	2.00	0.00	0.17	0.00	48.89	254.00	2.00	0.00	0.17	0.00
48.97	254.00	2.00	0.00	0.17	0.00	49.02	254.00	2.00	0.00	0.17	0.00
49.13	254.00	2.00	0.00	0.17	0.00	49.16	254.00	2.00	0.00	0.17	0.00
49.22	254.00	2.00	0.00	0.17	0.00	49.32	254.00	2.00	0.00	0.16	0.00
49.36	254.00	2.00	0.00	0.16	0.00	49.44	254.00	2.00	0.00	0.16	0.00
49.49	254.00	2.00	0.00	0.16	0.00	49.60	251.43	2.00	0.00	0.16	0.00
49.64	247.67	2.00	0.00	0.16	0.00	49.68	220.64	2.00	0.00	0.16	0.00
49.80	241.69	2.00	0.00	0.16	0.00	49.85	242.33	2.00	0.00	0.16	0.00
49.89	243.86	2.00	0.00	0.15	0.00	49.95	233.18	2.00	0.00	0.15	0.00
50.04	250.87	2.00	0.00	0.15	0.00	50.07	235.45	2.00	0.00	0.15	0.00

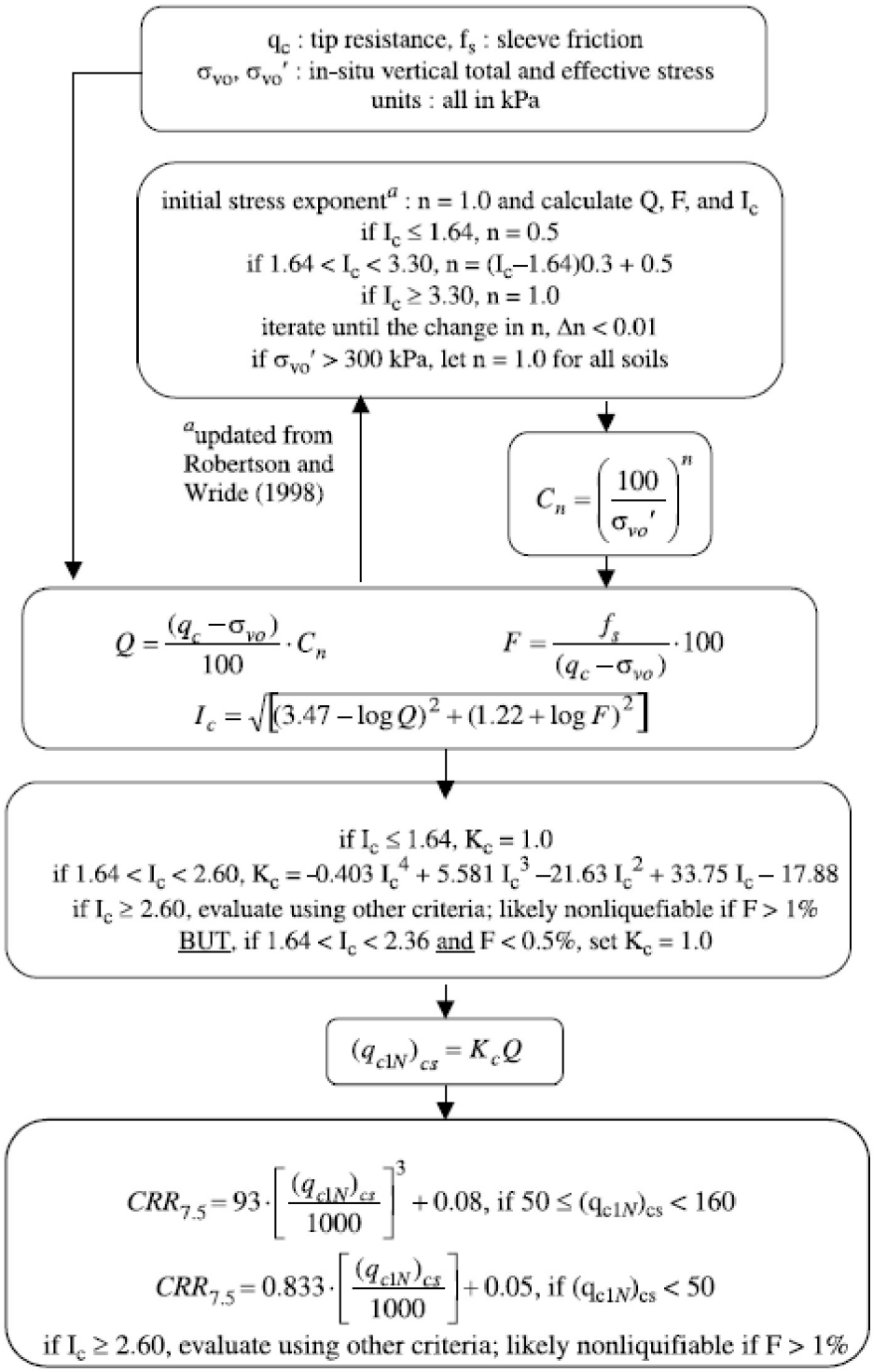
Total estimated settlement: 2.59

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Procedure for the evaluation of soil liquefaction resistance, NCEER (1998)

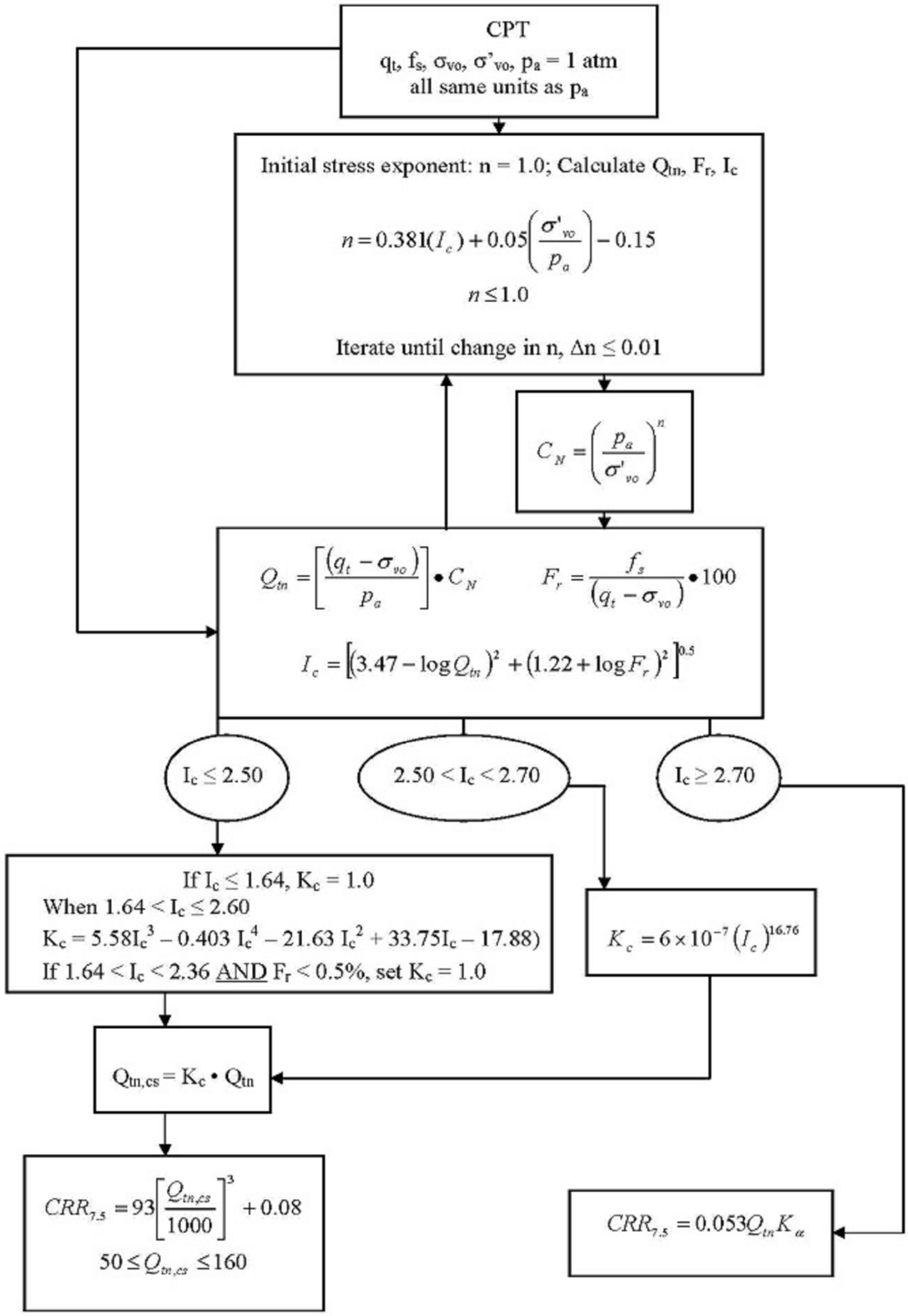
Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. The procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:



[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

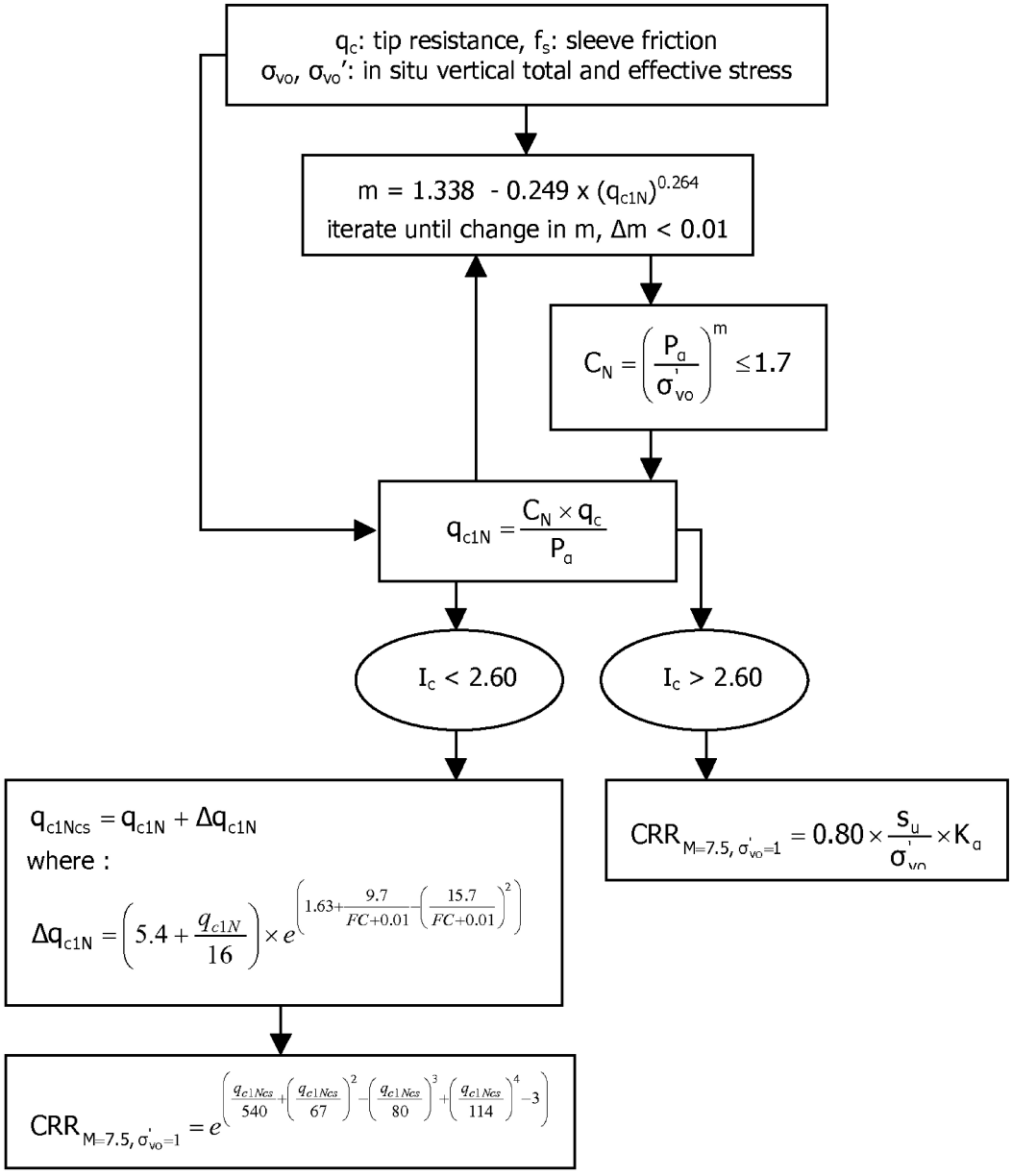
Procedure for the evaluation of soil liquefaction resistance (all soils), Robertson (2010)

Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. This procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:

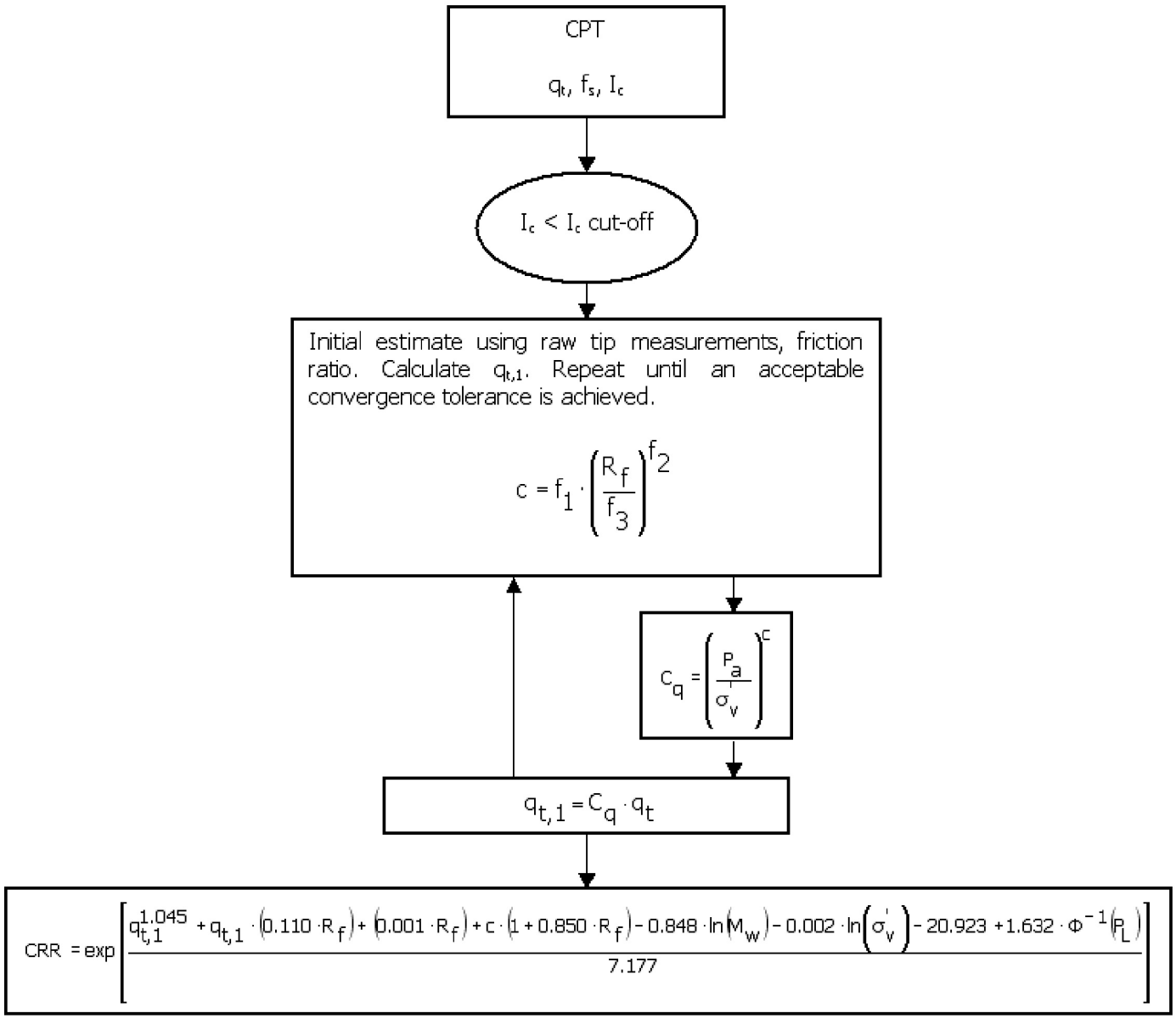


[1] P.K. Robertson, 2009. "Performance based earthquake design using the CPT", Keynote Lecture, International Conference on Performance-based Design in Earthquake Geotechnical Engineering – from case history to practice, IS-Tokyo, June 2009

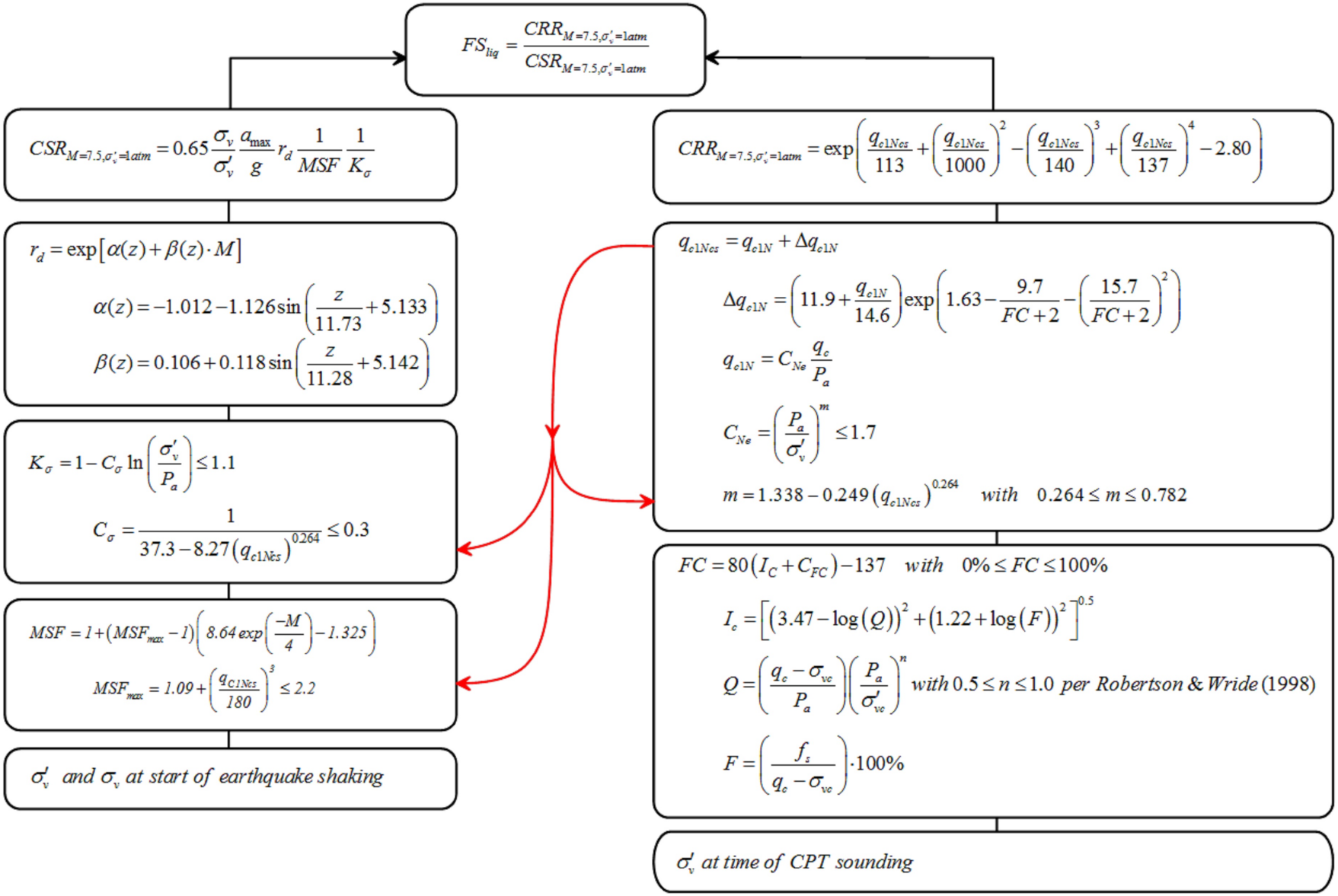
Procedure for the evaluation of soil liquefaction resistance, Idriss & Boulanger (2008)



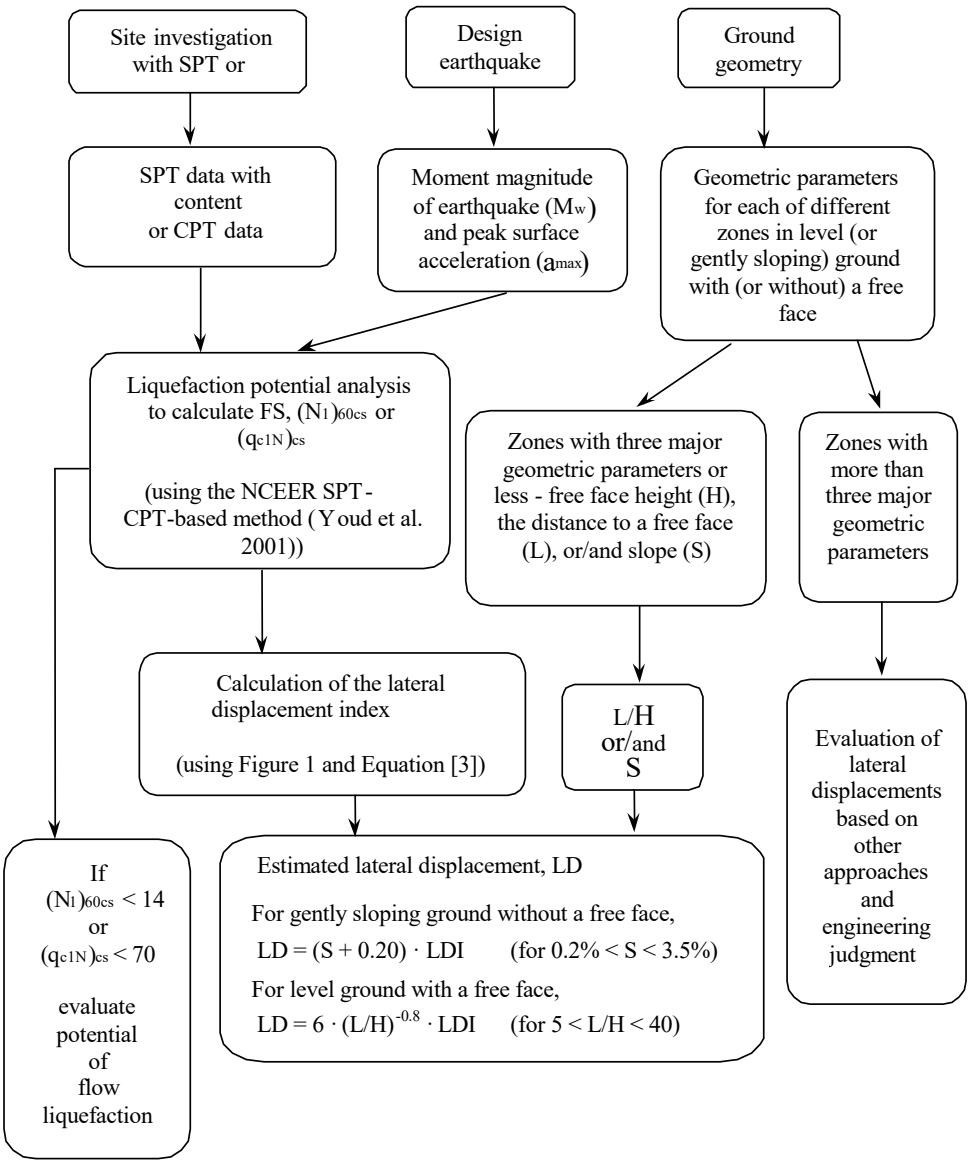
Procedure for the evaluation of soil liquefaction resistance (sandy soils), Moss et al. (2006)



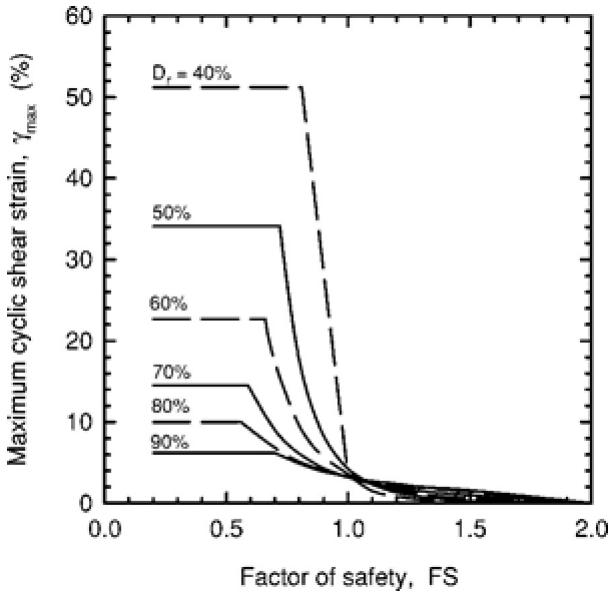
Procedure for the evaluation of soil liquefaction resistance, Boulanger & Idriss(2014)



Procedure for the evaluation of liquefaction-induced lateral spreading displacements



[1] Flow chart illustrating major steps in estimating liquefaction-induced lateral spreading displacements using the proposed approach



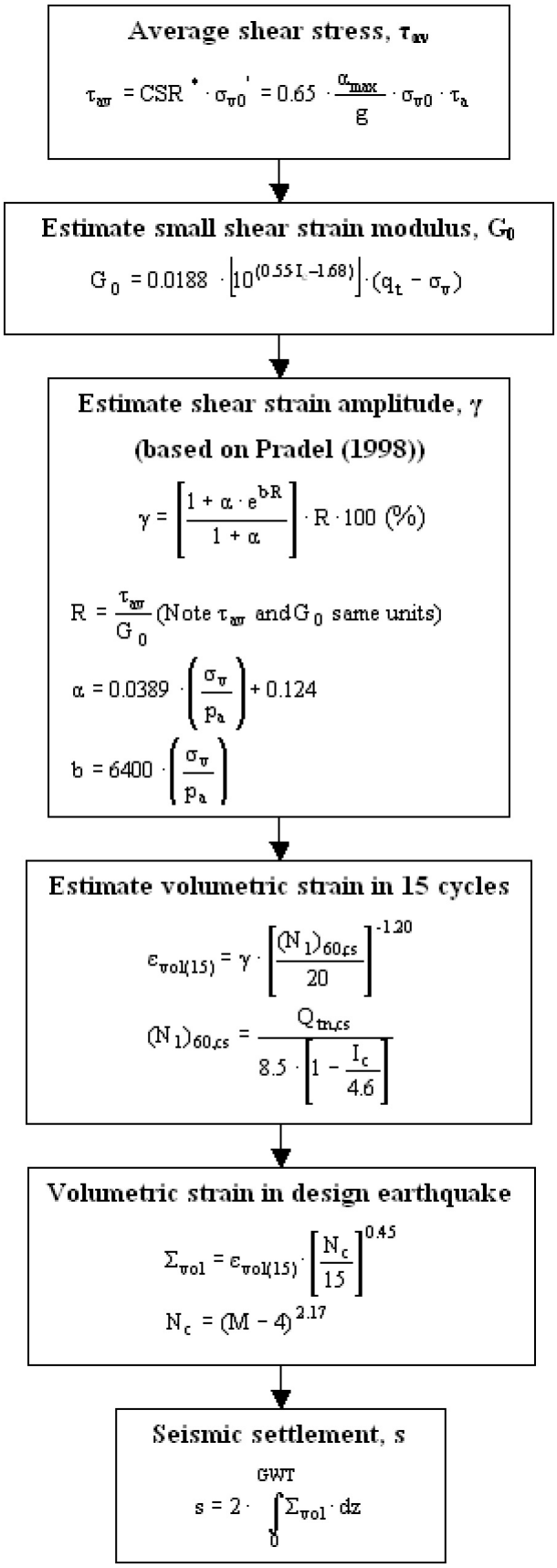
[1] Figure 1

$$LDI = \int_0^{z_{max}} \gamma_{max} dz$$

[1] Equation [3]

[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

Procedure for the estimation of seismic induced settlements in dry sands



Robertson, P.K. and Lisheng, S., 2010, "Estimation of seismic compression in dry soils using the CPT" FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS, Symposium in honor of professor I. M. Idriss, San Diego, CA

Liquefaction Potential Index (LPI) calculation procedure

Calculation of the Liquefaction Potential Index (LPI) is used to interpret the liquefaction assessment calculations in terms of severity over depth. The calculation procedure is based on the methology developed by Iwasaki (1982) and is adopted by AFPS.

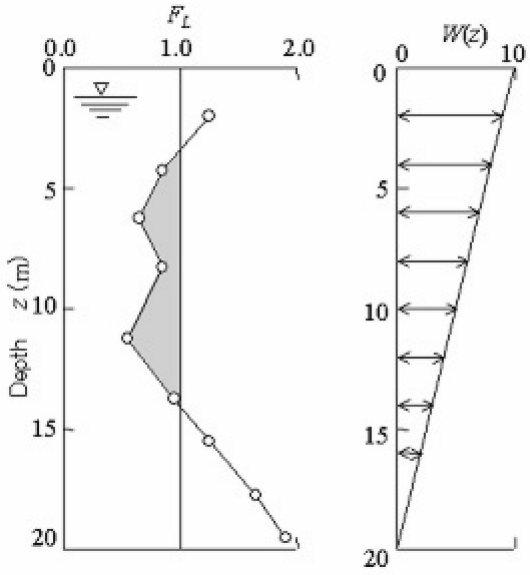
To estimate the severity of liquefaction extent at a given site, LPI is calculated based on the following equation:

$$\mathbf{LPI} = \int_0^{20} (10 - 0{,}5z) \times F_L \times dz$$

where:
F_L = 1 - F.S. when F.S. less than 1
F_L = 0 when F.S. greater than 1
z depth of measurment in meters

Values of LPI range between zero (0) when no test point is characterized as liquefiable and 100 when all points are characterized as susceptible to liquefaction. Iwasaki proposed four (4) discrete categories based on the numeric value of LPI:

- LPI = 0 : Liquefaction risk is very low
- 0 < LPI <= 5 : Liquefaction risk is low
- 5 < LPI <= 15 : Liquefaction risk is high
- LPI > 15 : Liquefaction risk is very high



Graphical presentation of the LPI calculation procedure

Shear-Induced Building Settlement (Ds) calculation procedure

The shear-induced building settlement (Ds) due to liquefaction below the building can be estimated using the relationship developed by Bray and Macedo (2017):

$$Ln(Ds) = c1 + c2 * LBS + 0.58 * Ln\left(Tanh\left(\frac{HL}{6}\right)\right) + 4.59 * Ln(Q) - 0.42 * Ln(Q)^2 - 0.02 * B + 0.84 * Ln(CAVdp) + 0.41 * Ln(Sa1) + \varepsilon$$

where Ds is in the units of mm, c1= -8.35 and c2= 0.072 for LBS ≤ 16, and c1= -7.48 and c2= 0.014 otherwise. Q is the building contact pressure in units of kPa, HL is the cumulative thickness of the liquefiable layers in the units of m, B is the building width in the units of m, CAVdp is a standardized version of the cumulative absolute velocity in the units of g-s, Sa1 is 5%-damped pseudo-acceleration response spectral value at a period of 1 s in the units of g, and ε is a normal random variable with zero mean and 0.50 standard deviation in Ln units. The liquefaction-induced building settlement index (LBS) is:

$$LBS = \sum W * \frac{\varepsilon_{shear}}{z} dz$$

where z (m) is the depth measured from the ground surface > 0, W is a foundation-weighting factor wherein W = 0.0 for z less than Df, which is the embedment depth of the foundation, and W = 1.0 otherwise. The shear strain parameter (ε_shear) is the liquefaction-induced free-field shear strain (in %) estimated using Zhang et al. (2004). It is calculated based on the estimated Dr of the liquefied soil layer and the calculated safety factor against liquefaction triggering (FSL).

References

- Lunne, T., Robertson, P.K., and Powell, J.J.M 1997. Cone penetration testing in geotechnical practice, E & FN Spon Routledge, 352 p, ISBN 0-7514-0393-8.
- Boulanger, R.W. and Idriss, I. M., 2007. Evaluation of Cyclic Softening in Silts and Clays. ASCE Journal of Geotechnical and Geoenvironmental Engineering June, Vol. 133, No. 6 pp 641 -652
- Boulanger, R.W. and Idriss, I. M., 20 14. CPT AND SPT BASED LIQUEFACTION TRIGGERING PROCEDURES. DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING COLLEGE OF ENGINEERING UNIVERSITY OF CALIFORNIA AT DAVIS
- Robertson, P.K. and Cabal, K.L., 2007 , Guide to Cone Penetration Testing for Geotechnical Engineering. Available at no cost at http://www.geologismiki.gr/
- Robertson, P.K. 1990. Soil classification using the cone penetration test. Canadian Geotechnical Journal, 27 (1), 151 -8.
- Robertson, P.K. and Wride, C.E., 1998. Cyclic Liquefaction and its Evaluation based on the CPT Canadian Geotechnical Journal, 1998, Vol. 35, August.
- Youd, T.L., Idriss, I.M., Andrus, R.D., Arango, I., Castro, G., Christian, J.T., Dobry, R., Finn, W.D.L., Harder, L.F., Hynes , M.E., Ishihara, K., Koester, J., Liao, S., Marcuson III, W.F., Martin, G.R., Mitchell, J.K., Moriwaki, Y., Power, M.S., Rober tson, P.K., Seed, R., and Stokoe, K.H., Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshop on Evaluation of Liquefaction Resistance of Soils, ASCE, Journal of Geotechnical & Geoenvironmental Engineering, Vol. 127, October, pp 817 -833
- Zhang, G., Robertson. P.K., Brachman, R., 2002, Estimating Liquefaction Induced Ground Settlements from the CPT, Canadian Geotechnical Journal, 39: pp 1168 -1180
- Zhang, G., Robertson. P.K., Brachman, R., 2004, Estimating Liquefaction Induced Lateral Displacements using the SPT and CPT, ASCE, Journal of Geotechnical & Geoenvironmental Engineering, Vol. 130, No. 8, 861 -871
- Pradel, D., 1998, Procedure to Evaluate Earthquake -Induced Settlements in Dry Sandy Soils, ASCE, Journal of Geotechnical & Geoenvironmental Engineering, Vol. 124, No. 4, 364-368
- Iwasaki, T., 1986, Soil liquefaction studies in Japan: state -of-the-art, Soil Dynamics and Earthquake Engineering, Vol. 5, No. 1, 2-70
- Papathanassiou G., 2008, LPI -based approach for calibrating the severity of liquefaction -induced failures and for assessing the probability of liquefaction surface evidence, Eng. Geol. 96:94 –104
- P.K. Robertson, 2009, Interpretation of Cone Penetration Tests - a unified approach., Canadian Geotechnical Journal, Vol. 46, No. 11, pp 1337-1355
- P.K. Robertson, 2009. "Performance based earthquake design using the CPT", Keynote Lecture, International Conference on Performance-based Design in Earthquake Geotechnical Engineering - from case history to practice, IS -Tokyo, June 2009
- Robertson, P.K. and Lisheng, S., 2010, "Estimation of seismic compression in dry soils using the CPT" FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS, *Symposium in honor of professor I. M. Idriss,* SAN diego, CA
- R. E. S. Moss, R. B. Seed, R. E. Kayen, J. P. Stewart, A. Der Kiureghian, K. O. Cetin, CPT -Based Probabilistic and Deterministic Assessment of In Situ Seismic Soil Liquefaction Potential, Journal of Geotechnical and Geoenvironmental Engineering, Vol. 132, No. 8, August 1, 2006
- I. M. Idriss and R. W. Boulanger, 2008. Soil liquefaction during earthquakes, Earthquake Engineering Research Institute MNO-12
- Jonathan D. Bray & Jorge Macedo, Department of Civil & Environmental Engineering, Univ. of California, Berkeley, CA, USA, Simplified procedure for estimating liquefaction -induced building settlement, *Proceedings of the 19th International Conference*

Appendix F

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA 90241
(APNs 6284-019-013 through -017)

Prepared for:

Prologis, Inc.
Pier 1, Bay 1
San Francisco, California 94111
(415) 733-9431

Prepared by:

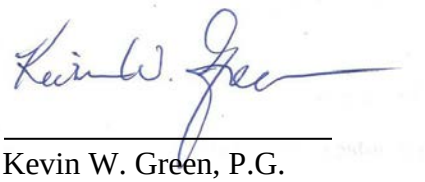
SCS ENGINEERS
3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806
(562) 426-9544

January 31, 2017
File No. 01216368.00 Task 1

This Phase I Environmental Site Assessment Report for Downey Industrial Center located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California, dated January 31, 2017, was prepared by Ashley Hutchens and reviewed by Kevin Green.

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. The resumes for the individuals below are included in **Appendix G**. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Ashley Hutchens, REPA
Project Manager
SCS ENGINEERS



Kevin W. Green, P.G.
Project Director
SCS ENGINEERS

Table of Contents

Section		Page
EXECUTIVE SUMMARY		III
1	INTRODUCTION	1
2	PURPOSE	1
3	SCOPE OF SERVICES	1
4	SPECIAL TERMS AND CONDITIONS	2
5	LIMITATIONS AND ASSUMPTIONS	2
6	GENERAL SITE CHARACTERISTICS	3
	Site Location	3
	General Site Description	3
	Adjoining Property Use	4
7	PHYSICAL SETTING	4
	Physiographic Setting	4
	Geology and Soils	4
	Groundwater	4
	Radon	4
8	SITE INSPECTION	5
	Hazardous Substances	7
	Natural Drainage	7
	Disturbed Areas	7
	Elevators and Other Hydraulic Equipment	7
	Wells	7
	Electrical Equipment	8
	Wastewater	8
	Drinking Water	8
	Storage Tanks	8
	Asbestos-Containing Materials (ACMs)	8
	Lead-Based Paint (LBP)	8
	Visual Inspection of Adjoining Sites	8
9	INTERVIEWS	9
10	SITE HISTORY	9
	Historical Use Summary	14
	Historical Use of Adjoining Sites	14
11	COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION	14
	Previous Environmental Reports	14
	Regulatory Agency Records	15
	Los Angeles County Department of Public Works (LACDPW)	15
	Los Angeles County Department of Public Health	15

Los Angeles Regional Water Quality Control Board Files 17
South Coast Air Quality Management District 17
12 REVIEW OF FEDERAL, STATE, TRIBAL, AND LOCAL GOVERNMENT DATABASES 19
Property Listings 19
Adjacent Site Listings 20
Other Database Sites 21
Unmappable or Orphan Sites 22
Landfills 22
Oil and Gas Wells 22
National Pipeline Mapping System (NPMS) 23
13 USER PROVIDED INFORMATION 23
Title Records 23
Environmental Liens or Activity and Use Limitations 23
Specialized Knowledge 23
Valuation Reduction for Environmental Issues 23
14 DEGREE OF OBVIOUSNESS OF THE PRESENCE/LIKELY PRESENCE OF CONTAMINATION ON THE PROPERTY 24
15 DATA GAPS 24
16 FINDINGS AND OPINIONS 24
17 REFERENCES 28
18 GLOSSARY/DEFINITIONS 29

Appendices

A Figures 1 through 3
B Aerial Image and Site Photographs
C Historical Site Use Information
D Previous Reports
E Regulatory Agency File Review Information
F EDR Database Report
G Resumes of Project Personnel

EXECUTIVE SUMMARY

SCS Engineers (SCS) was retained by Prologis, Inc. (Prologis) to prepare a Phase I Environmental Site Assessment (ESA) of Downey Industrial Center located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California (the "Property"). This assessment was performed in conformance with 40 CFR 312, Standards for Conducting All Appropriate Inquiries, in general conformance with ASTM E1527-13, and in accordance with the Master Services Agreement between SCS and Prologis. The Phase I ESA identified the following Recognized Environmental Conditions (RECs):

- Numerous patch areas and steel plated vault/trenches were observed in the larger warehouse buildings. A well was observed at the south end of Building 1A. No information could be provided to SCS regarding the well. The subsurface features observed within the structures represent a REC.

- Numerous tenants have occupied the Property including various manufacturing facilities, carpets, furniture, cabinetry, printing, logistics, pulp and paper recycling, etc. Chemical use by these historical tenants is unknown. The presence of various historic manufacturing operations with unknown chemical use on the Property constitutes a REC.

- Available records on the SCAQMD's Facility Information Detail (FIND) database indicate the use of degreasers containing chlorinated solvents on the parcel directly adjacent to the west (9236 Hall Road) by two former occupants, Aerojet and General Dynamics. One of these former neighbors, Aerojet, also occupied (prior to 1971) the portion of the Property located at 9300 Hall Road and thus may have conducted operations on the Property. Permits for the adjacent site at 9236 Hall Road indicated that both Aerojet and General Dynamics operated a 1,1,1-trichloroethane degreaser, a perchloroethylene degreaser, a Freon degreaser, scrubbers, wastewater treating equipment, a spray booth (paint and solvent), and other equipment related to aerospace manufacturing activities. The use of chlorinated solvents adjacent to, and potentially on the Property, constitutes a REC.

- Los Angeles County Department of Public Works (LACDPW) records indicated that Aerojet occupied the adjacent parcel to the west from at least 1971 to 2003, and leased the building at 9300 Hall Road for use, including aerospace machining operations, for a period of time up to 1971. A number of subsurface features were used during this time, including a 10,000 gallon diesel underground storage tank (UST; unknown installation date) and various concrete sumps and/or clarifiers. The UST was removed and some of the sump/clarifiers were abandoned in place in 1986. A no further action letter was issued by the LACDPW on February 28, 1986 for certain concrete oil, grease, and water "tanks;" the 10,000-gallon UST was not included in this closure letter. Other subsurface features (drain lines, pit, sump, clarifier, etc.) were listed in the LACDPW records and it is anticipated these remain in place. Samples collected in 1985, from the contents of these features (both those removed and those that are anticipated to remain) revealed elevated concentrations of metals, total petroleum hydrocarbons (TPH), and oil and grease (analysis for volatile organic compounds [VOCs] was not conducted). The highest metals concentrations were detected in a sample collected from a "dirt pit." The disposition of the clarifiers, pits, sumps and other facilities contents from which samples were collected

is unknown. The presence of these subsurface features, some of which currently appear to remain and some of which were abandoned in place, along with the former aerospace machining operations, are considered a REC.

- Two USTs (a 1,000 gallon gasoline and a 15,000 gallon diesel) were formerly located at the Western Pacific Paper and Pulp facility at 9350 Hall Road. A release of up to 18,200 (presumably mg/kg, however the units were not reported) of TPH was summarized on an unauthorized release report that referred the case from the LACDPW to the Los Angeles Regional Water Quality Control Board (LARWQCB). Although the LARWQCB issued a no further action letter in 1996, there is no record that any remediation was conducted, therefore the presence of the former USTs and associated release constitute a REC.

- In 1995, Heger Reality disposed of tank bottom wastes (based on the date, this may be associated with the USTs removed at 9350 Hall Road) and halogenated solvents from the address of 9400 Hall Road. The disposal of tank bottom wastes (indicating the presence of former UST[s]) and halogenated solvents is considered a REC.

In addition, the following business environmental risk (BER) was identified:

- During the site inspection, it was brought to SCS' attention that an underground storage area or bunker may exist at the northwest corner of the Property, in the area of the Duray (9301 Stewart and Gray Road) and Omniteam (9300 Hall Road) facilities. Comments by tenants at these businesses suggested the bunker was used during World War II and that it housed chemicals. No evidence regarding the presence of this feature was observed during the site inspection, and its current or past existence has not been confirmed.

Conclusions

Based on the identified RECs at the Property, additional investigation is recommended.

Data Gaps

The following data gaps were encountered:

- The first development of the Property was unable to be determined.
- An information request for building permit records was made with the City of Downey City Clerk and as of the date of this report, had not been received.

Based on the available information these data gaps are not considered significant.

1 INTRODUCTION

SCS Engineers (SCS) was retained by Prologis, Inc. (the "User") to prepare a Phase I Environmental Site Assessment (ESA) of Downey Industrial Center located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California (the "Property"). A location map for the Property is presented as **Figure 1** in **Appendix A**. This assessment was performed in conformance with 40 CFR 312, Standards for Conducting All Appropriate Inquiries, and in general conformance with ASTM E1527-13, and the Master Services Agreement between SCS and Prologis dated July 14, 2015.

2 PURPOSE

The purpose of this investigation was to identify conditions indicative of releases or threatened releases of hazardous substances as defined in CERCLA section 101, and petroleum products, on, at, in, or to the Property.

This assessment is intended to constitute appropriate inquiry into the previous ownership and uses of the property, as required to support the assertion of the innocent landowner, contiguous property owner, and/or bona fide prospective purchaser defenses to liability (collectively the landowner liability protections, or LLPs) under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA a.k.a. Superfund), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) and the Small Business Liability Relief and Brownfields Revitalization Act of 2002.

If known or suspected contamination is identified, Users seeking to maintain LLPs have responsibilities in addition to completion of an AAI-compliant Phase I ESA. These "continuing obligations" include taking "appropriate care" and "reasonable steps" with respect to known or suspected releases of hazardous substances during the term of property ownership. In addition to these requirements under Federal law, there are different requirements under state law with respect to liability protections. On request, SCS Engineers can provide support for clients with continuing obligations, as appropriate.

3 SCOPE OF SERVICES

This Phase I ESA is based on:

- Interviews with past and/or present owners, operators, and/or occupants of the Property.
- Reviews of federal, tribal, state, and local government records.
- Visual inspections of the Property and adjoining properties performed on January 10, 2017.
- Review of historical Property use information (topographic maps, aerial photographs, fire insurance maps, existing reports, etc.).
- Commonly known or reasonably ascertainable information about the Property (e.g., interviews with appropriate regulatory agency personnel and review of agency files review of available documents, interviews with other knowledgeable persons).

- Degree of obviousness of the presence or likely presence of contamination at the Property, and the ability to detect the contamination by appropriate investigation.
- Information provided as a result of the additional inquiries conducted by the User.

4 SPECIAL TERMS AND CONDITIONS

This Phase I ESA for Downey Industrial Center, 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California has been prepared specifically for Prologis, Inc. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, express or implied, is made as to the professional opinions presented herein.

No other party, known or unknown to SCS, is intended as a beneficiary of this work product, its content or information embedded therein. Third parties use this report at their own risk. Third party reliance letters may be issued on request to SCS subject to approval of Prologis, Inc. and payment to SCS of a fee for such letters.

5 LIMITATIONS AND ASSUMPTIONS

The investigation focused on releases and threatened releases of hazardous substances or petroleum products that could be considered a recognized environmental condition (REC) and/or a liability due to their possible presence in significant concentrations (e.g., above acceptable limits set by the Federal or state government) or due to the potential for contaminant migration through exposure pathways (e.g., groundwater). Materials that may contain substances which are not currently deemed hazardous by the federal or state of California EPA were not considered as part of this study.

Unless specifically included in our scope of services, formal surveys for asbestos-containing materials, lead-based paints, fire safety, vapor intrusion, indoor air quality, mold, and similar matters were not part of this assessment. The Property was not evaluated for compliance with land use, zoning, wetlands, or similar laws. This report is not intended to be an environmental compliance audit.

Hazardous substances naturally occurring in plants, soils, and rocks (e.g., heavy metals, naturally occurring asbestos, or radon) are not typically considered in these investigations. Similarly, construction debris (e.g., discarded concrete, asphalt) is not considered to be of concern unless observations suggest that hazardous substances are likely to be present in significant concentrations.

Unless otherwise noted, sampling and laboratory analyses of soil, water, air, building materials, or other media, were not performed as part of this investigation. Positive identification of hazardous substances can only be accomplished through sampling and appropriate laboratory analysis.

SCS Engineers assumes no responsibility for the accuracy of information obtained from, compiled by, or provided by third-party sources, such as regulatory agency listings. Unless obviously inaccurate or if information exists to the contrary, SCS Engineers assumes that

information collected during this environmental site assessment is accurate and correct. Unless warranted, information collected has not been independently validated as part of this assessment.

The following information is the responsibility of the User (40 CFR 312.22) and was verbally discussed with the User:

- Specialized knowledge or experience of the User.
- The relationship of the purchase price to the fair market value of the Property. The purchaser of a Property is required to consider whether any differential between the purchase price and the fair market value of the Property is due to the presence of releases or potential releases of hazardous substances at the Property.

Certain other limitations could affect the accuracy and completeness of this report, as follows:

- Site Access Limitations – Access to the Property was readily available.
- Physical Obstructions to Observations – Numerous businesses currently operate at the Property and equipment, storage of materials, etc. may have limited observation of all areas.
- Outstanding Information Requests – None
- Historical Data Sources Failure – The date of first development of the Property was unable to be determined.
- Other Limitations – None

6 GENERAL SITE CHARACTERISTICS

SITE LOCATION

The Property is located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road and is located between Hall Road (to the north) and Steward and Gray Road (to the south) on the block bounded to the east by Woodruff Avenue and to the west by Coldbrook Avenue. The Property consist of five parcels that have been assigned Assessor's Parcel Numbers (APNs) 6284-019-013 through -017. An APN map is provided as **Figure 2**.

GENERAL SITE DESCRIPTION

The Property is approximately 29 acres of commercial/industrial land currently developed with four primary structures (two large and 2 small) occupied by five tenants, associated parking areas, storage yards, and canopy areas. The current structures were built between about 1952 and 1973. The two larger structures are each divided into two portions (A and B) and occupied by different tenants, as later discussed.

ADJOINING PROPERTY USE

- North – Hall Road, across which is a railroad easement.
- East – Pacific Elite Collision Centers (11899 Woodruff Avenue) and Onstage Dance Center (11711 Woodruff Avenue)
- South – Stewart and Gray Road, across which is S&G Leadway Plastics Corp (9368 Stewart and Gray Road) and CPL Express Inc. (9340 Stewart and Gray Road)
- West – a multi-tenant commercial office park

7 PHYSICAL SETTING

PHYSIOGRAPHIC SETTING

The Property is located in the Downey Plain of the central Los Angeles basin. Site elevation ranges from approximately 107 to 112 feet above mean sea level. Site topography is generally flat with a slight regional downward slope to the south. The San Gabriel River is located approximately 0.5 miles to the southeast of the Property.

GEOLOGY AND SOILS

Based on the regional geology as outlined in the California Department of Water Resource Bulletin 104 (Planned Utilization of the Groundwater Basins of Los Angeles County, June 1961,) surface sediments in the area consist of Quaternary alluvial deposits of unconsolidated gravel, sand, silt, and clay.

GROUNDWATER

Based on the results of groundwater monitoring at the former Astro Pak facility located approximately 0.5 miles west of the Property (GeoTracker, Site #SL2044E1590), the depth to groundwater in the area is generally 50 to 60 feet below ground surface (bgs). The direction of groundwater flow is generally southerly.

RADON

According to the California Department of Health Service's May 2010 Radon Program report, screening in the area of the Property (90241 zip code) found no locations (out of 14) where buildings had radon levels greater than or equal to 4 pCi/L (the EPA action level). Note that elevated radon levels may also be attributed to other radon sources such as leaking natural gas or numerous building products such as drywall, cinderblock, concrete floors, brick, or stone products. Based on the available information, therefore, elevated radon gas is not expected in the area of the Property.

8 SITE INSPECTION

An inspection of the Property and surrounding area was conducted on January 10, 2017, by Ashley Hutchens of SCS. A sketch map and photographs of the Property are provided in **Appendix B**.

Access to the Property was arranged by Mr. Randy Scott of Heger Industrial (Heger). Heger had managed the Property since 1991. The Property is heavily used for commercial/industrial purposes by five tenants. Mr. Scott arranged access with appropriate persons at each of the tenant spaces each of whom assisted during the site inspection.

There are four main structures on the Property, two of which are large structures divided into two sections, which according to a schematic provided by Heger Industrial (**Figure 3**), include:

- Building 1A – 9300 Hall Road occupied by Omniteam, Inc.
- Building 1B – 9301 Stewart and Gray Road occupied by Duray
- Building 2A – 9400 Hall Road occupied by EJ Lauren
- Building 2B – 9399 Stewart and Gray Road occupied by 88 Logistics
- Building 3 – 9333/9363 Stewart and Gray Road occupied by 88 Logistics (and partners)
- Storage – 9350 Hall Road occupied by Western Pacific Pulp and Paper

Site inspection was conducted by tenant as discussed below. The site map provided in **Appendix B** depicts the areas on the Property occupied by the five various tenants.

Omniteam Inc. (Building 1A)

According to Heger, Omniteam has occupied the Property at 9300 Hall Road since 1985. SCS was assisted by Mr. Jeff McKeown during the site inspection. Omniteam occupies the northern portion of the large structure on the western side of the Property (Building 1A), and fabricates stainless steel and refrigeration restaurant equipment. Operations are divided into various divisions including design, cutting, shaping, welding, refrigeration, etc. Patch areas were observed in the concrete of the warehouse floor. A manhole was observed at the south end of the tenant space that is apparently an electrical vault as later discussed. A "monitoring" well box was also observed near this area, also further discussed below.

During the site visit, personnel were fixing and operating a sump pump to pump rainwater into Hall Road storm drains.

Duray (J.F. Duncan Industries, Inc.) (Building 1B)

According to Heger, Duray has occupied the Property at 9301 Stewart and Gray Road since 1985. SCS was assisted by Mr. Jose Alvaraz of Duray during the site inspection. Duray conducts operations similar to Omniteam, in that they manufacture food service equipment. Several steel plated vault/trench and patch areas were observed in the concrete floor of the warehouse. Mr.

Alvaraz indicated that none of these features are currently or historically associated with Duray's activities and assisted in opening one of the plated areas for inspection. The steel plates housed two pipes within a concrete trench. A small amount of oily liquid was observed in an area where the pipes terminated.

A manhole was observed at the south end of the tenant space that is apparently an electrical vault as later discussed. A cinderblock area was observed in a second story area within the warehouse that Mr. Alvarez indicated was historically used by previous tenant for explosive storage.

Duray conducts minor maintenance of its vehicles and stores the associated materials in the southern portion a metal shed along the east boundary of their lot. In addition, a baghouse, unrelated to Duray's activities (Mr. Alvaraz indicated it was related to a previous wood shop) remained at the northeastern boundary of Duray's lot.

EJ Laurens (Building 2A)

According to Heger, WPPP has occupied the Property at 9400 Hall Road since September 2015. SCS was assisted by Mr. Tony Ocampo, owner, during the site inspection. EJ Laurens manufactures sofas for retail stores. A fire had recently occurred at this facility (December 19, 2016). The fire had been contained to one area at the north end of the structure [Building 2A], which was undergoing renovation at the time of the inspection. The area was boarded up at the exterior and was sealed from the manufacturing area with plastic sheeting and was off limits to employees.

88 Logistics (Buildings 2B and 3)

According to Heger, 88 Logistics has occupied the Property at 9399 Stewart and Gray Road since September 2011, prior to which Performance Freight occupied it from 2010 to 2011 and HUDD Logistics was present from 1984 to 2010. SCS was assisted by Mr. Myron Giron during the site inspection.

Currently the warehouse (Building 2B) is used for storage of materials waiting for shipment, including pallets of drums and other products, some of which included chemical ingredients for manufacture of soaps and detergents. 88 Logistics leases to several subtenants associated with their activities including On the Road Transport and Trans Auto Logistics, which currently occupy the structure at 9333 and 9363 Stewart and Gray Road.

Western Pacific Pulp & Paper (WPPP) (Storage Building)

According to Heger, WPPP has occupied the Property at 9350 Hall Road since 1986. SCS was assisted by Mr. Kevin Duncombe during the site inspection. WPPP has office space in Building 2A, but their facility operations occupy the central and northcentral portion of the Property. WPPP conducts recycling activities consisting primarily of shredding paper, processing, and bailing. Bails are then shipped off to paper mills. Some plastic products are also recycled in similar manners. WPPP also provides recycling containers to facilities and pickup/delivery of those containers for the recycled materials.

During the site inspection, recent rains had made the area slick and messy as a result of the wet pulp/paper that covered the ground. Storm water discharge from this facility could be problematic.

WPPP conducts minor maintenance of its vehicles and stores the associated materials in an area at the south of the structure at 9350 Hall Road, including new and waste fluids stored in a shipping container, diesel exhaust fluid, hydraulic oil, and other unidentified drums. These materials were stored on asphalt or within the shipping container. Drains, staining, spills, leaks, and degraded pavement were not observed.

HAZARDOUS SUBSTANCES

Numerous 55-gallon drums were observed across the Property including one LT100A-Compliant Gun and Equipment Cleaner (acetone), several for waste oil, and a number used for trash. No signs of chlorinated solvent use was observed.

Minor vehicle maintenance operations (oil changes) are conducted at Duray and WPPP. Materials associated with these activities were stored in a trailer container at WPPP and a shed in the eastern storage yard at Duray.

In addition, numerous propane tanks and compressed gas canisters were observed, discussed below, were observed across the Property.

NATURAL DRAINAGE

Natural waterways are not currently located on the Property. Runoff from the Property drains via culverts throughout the Property into storm drains, surrounding streets, and in some cases via a sump pump to surrounding streets.

DISTURBED AREAS

With the exception of one unpaved area at the northwest corner of the Property (at 9300 Hall Road), the 29 acre Property consists entirely of numerous structures and paving associated with storage yards and parking areas.

ELEVATORS AND OTHER HYDRAULIC EQUIPMENT

One hydraulic elevator was observed in building 1A. The service company and frequency was not known. What appeared to be an oil spot was observed in the elevator room.

WELLS

One 8-inch diameter monitoring well box was observed in building 1A. The well box was opened to inspect contents and a 3-inch PVC casing was observed to be backfilled with bentonite. The purpose of the well was not known by the tenant.

ELECTRICAL EQUIPMENT

Several pad-mounted Southern California Edison (SCE) electrical transformers servicing the Property were observed. SCE has stated that they have never specified the purchase of distribution transformers utilizing PCBs as the insulating/cooling fluid. SCE transformers utilize mineral oil exclusively. In a statistically valid test of over 20,000 SCE distribution transformers, SCE determined that the concentrations of PCBs in the mineral oils was less than 50 parts per million (ppm) in over 96 percent of the units. Based on the available information, no significant environmental impact to the Property is anticipated from transformers.

WASTEWATER

Sanitary sewer service for the Property is provided by the City of Downey Public Works Department, Utilities Division. Potential clarifiers were observed on the west side of the Omniteam facility (Building 1A, 9300 Hall Road) and on the east side of the storage building at 9350 Hall Road. Both features were covered with steel plates and were not accessible for inspection. Neither are used by the current tenants, who also do not have any knowledge regarding the specifications.

DRINKING WATER

Drinking water for the Property is provided by the City of Downey Public Works Department, Utilities Division. Drinking water samples were collected for analysis of lead and will be discussed in a separate report prepared by SCS.

STORAGE TANKS

No evidence of underground storage tanks (USTs) was observed during the site inspection. Numerous propane tanks (used for forklift operation) and compressed gases canisters (including argon, oxygen, carbon dioxide, etc.) were observed on the Property.

ASBESTOS-CONTAINING MATERIALS (ACMS)

An ACM survey was conducted by SCS on January 10 and 11, 2016, the results of which will be summarized in a separate report prepared by SCS.

LEAD-BASED PAINT (LBP)

An LBP survey was also conducted by SCS on January 10 and 11, 2016, the results of which will be summarized in a separate report prepared by SCS.

VISUAL INSPECTION OF ADJOINING SITES

- North – Hall Road, across which is a railroad easement.
- East – Pacific Elite Collision Centers (11899 Woodruff Avenue) and Onstage Dance Center (11711 Woodruff Avenue)

- South – Stewart and Gray Road, across which is S&G Leadway Plastics Corp (9368 Stewart and Gray Road) and CPL Express Inc. (9340 Stewart and Gray Road)
- West – a multi-tenant commercial office park

9 INTERVIEWS

As previously discussed, Mr. Randy Scott of Heger provided SCS with general access to Property; representatives of each tenant provided access and relevant information.

Mr. Scott indicated that Heger has no knowledge nor could find information of hazardous materials usage (including USTs and chlorinated solvents) at the Property. Mr. Scott also reported that the manholes observed in Buildings 1A and 1B are electrical vaults and that Building 2A and 2B also have the same features.

During the site inspection it was brought to SCS' attention that an underground storage area or bunker may exist at the northwest corner of the Property, in the area of the Duray and Omniteam facilities. Comments by tenants at these businesses suggested the bunker was used during World War II and that it housed chemicals. No one knew exactly where the bunker is or how to access it, however several stories about the bunker indicated that it was used during the World War II era and that one employee approached the City of Downey about using the area to store toy trains, however the City would not allow it because it was "full of chemicals." No evidence regarding the presence of this feature was observed during the site inspection, and its existence is unknown at this time.

10 SITE HISTORY

Site history was evaluated from the following sources:

- Historical U.S. Geological Survey (USGS) topographic maps provided by Environmental Data Resources (EDR) (December 29, 2016).
- Historical aerial photographs dating from 1928, 1938, 1952, 1963, 1972, 1977, 1983, 1989, 1994, 2002, 2005, 2009, 2010, and 2012 provided by Environmental Data Resources (EDR) (December 29, 2016).
- A search was made of EDR-Sanborn collection and no maps of the Property were found.
- City Directory review report provided by EDR (January 3, 2017).

Copies of aerial photographs, city directories, and topographic maps are included in **Appendix C**.

Year	Description	Source

Year	Description	Source
1896/1899 /1902	One structure was depicted at the northeast corner of the Property. A railroad was observed adjacent to the north/northeast and Hall Road was present to the north. Woodruff Avenue was present adjacent to the east. San Gabriel River was present in the vicinity to the east.	Topographic map
1923/1925	No structures were depicted on the Property. A stream or creak appeared to traverse the Property.	Topographic map
1928	The majority of the Property, with the exception of the northeast corner, appeared to be agricultural or fallow land. A dirt road transected the southwest corner of the Property. The northeast corner appeared to be occupied by a dwelling or farm that extended beyond the Property line to the east. The surrounding area appeared to be fallow or agricultural land. A railroad track was present to the north/northeast across which was an orchard.	Aerial Photograph
1936	The map is similar to 1925 map.	Topographic map
1938	The Property and surrounding area appeared similar to the 1928 photo.	Aerial Photograph
1942/1943 /1949/1951	One or two small structures appeared to be located on the northern portion of the Property, along Hall Road. Orchards appeared to be located at the southwest corner of the Property and in the vicinity.	Topographic map
1952	Large structures were present on the Property including Building 1A (northwestern corner) and Buildings 2A/2B (eastern portion of the Property). Two small structures were present between the large ones. The remaining areas appeared to be primarily used for parking. An AST was observed along the southern boundary at the centerline of the Property. The immediately adjacent areas appeared vacant or remained agricultural with the exception of a structure and parking adjacent to the east.	Aerial Photograph

Year	Description	Source
1963	The large structure on the western portion of the Property had been extended to the south with the construction of Building 1B. The Property generally appeared similar to current conditions with the exception that Building 3 was not present and the AST remained. Three main parking areas were observed; between the two large structures and at the northwest and southwest corners of the Property. The immediately surrounding area had been heavily developed for commercial use including the adjacent structure to the west.	Aerial Photograph
1964/1965	Two large structures and six small structures along with a water tank were depicted on the Property.	Topographic map
1971	A listing for C.H. Cochran was present for 9355 Stewart and Gray Rd. through 1985. A manufacturing facilities appeared present adjacent to the south at 9368 (Intrcntntl Sply & Mfg") and 9426 (Boman Astrosonix) Stewart and Gray Rd. Aerojet General Ordnance was listed at 9236 Hall Rd. (through 2003) which is located adjacent to the west, however, as later discussed, there is information that Aerojet conducted activities on the Property.	City Directories
1972	Building 3 had been constructed and the structures appeared similar to current conditions. The topographic map depicted three new mall structures, one of which was Building 3. The water tank was still depicted. The surrounding area appeared similar to the 1964 photo.	Aerial Photograph, Topographic Map
1975	C.H. Cochran remained at 9355 Stewart and Gray. Minibus Inc. was listed for 9301 Stewart and Gray, and All Western Pallet and INPS Printing Co. were listed for 9363 Stewart and Gray. Bowman Plastics was listed at 9375 Steward and Gray and 9379 Stewart and Grey appeared in directory with no occupant listed. Boman Industries, C A R Brands, Cal Auto Radio, and Gibbs Sound Products were listed at 9300 Hall Road. An address of 9380 Hall road appeared on the directory, however no occupant was listed.	City Directories
1977	The Property and surrounding area appeared similar to the 1972 photo.	Aerial Photograph

Year	Description	Source
1980	Duray Inc. and Imperial Installation were listed at 9301 Stewart and Gray (Duray remained present as of the date of this report); Alpine Animal Centers at 9303 Stewart and Gray; C.H. Cochran at 9355 Stewart and Gray; All Pacific Pallet at 9363 Stewart and Gray; Bowman Plastics and Hubbard Carpets at 9375 Stewart and Gray. The Property listings for Hall Road were the same as the 1975 directory.	City Directories
1981	The map appeared similar to the 1964/65 map with the exception that the "NASA Industrial Plant" was depicted approximately 0.25 miles to the southeast.	Topographic map
1983	The Property appeared similar to the previous photo with the exception that the area between the two large structures appeared vacant and the lot at the southwest corner was used for trailer storage.	Aerial Photograph
1985	Changes from the 1980 directory include no occupants listed for addresses of 9303, 9363, 9375, and 9379 Stewart and Gray. Flexi Van Trailers and Craig Robt Corp were listed at 9333 and 9333 ½ Stewart and Gray. Bridgewater Association was listed at 9335 Stewart and Gray. Listings for 9300 Hall Rd. appeared similar to those form 1975-1980. Western Pacific Pulp was listed at 9350 Hall Rd.; no occupant was listed for 9380 Hall Rd.; and Hudd Distribution Service Inc. was listed for 9400 Hall Rd.	City Directories
1989	The Property generally appeared similar to the 1983 photo with the exception that the AST was no longer present and additional trailer storage and storage in the central portion of the Property related to the paper recycling facility.	Aerial Photograph
1992	Property listings included: Bridgewater & Associates, Duray Inc, and Omni Temp Refrigeration at 9301 Stewart and Gray; AJF Leasing at 9333 Stewart and Gray; Hydroquip Pump at 9355 Stewart and Gray; Western Pacific Pulp & Paper at 9350 Hall Rd; and Hudd Distb at 9400 Hall Rd.	City Directories
1994	Less trailers were stored on the Property, otherwise it appeared similar to the 1989 photo.	Aerial Photograph
1995	Property listings included: Duray Inc. and Omni Temp Refrigeration at 9301 Stewart and Gray; Xtra Leasing Inc. at 9333 Stewart and Gray; Hydroquip Pump at 9355 Stewart and Gray; and Hudd Distb at 9400 Hall Rd.	City Directories

Year	Description	Source
1999	Property listings included: Bridgewater & Associates, Duray Inc/JF Duncan Duray, and Omni Temp Refrigeration at 9301 Stewart and Gray; Xtra Lease at 9333 Stewart and Gray; Hydroquip Pump at 9355 Stewart and Gray; Intersection Development Corp at 9300 Hall Rd; Western Pacific Pulp and Paper at 9350 Hall Rd.; and Hudd Distb at 9400 Hall Rd.	City Directories
2002	The Property appeared similar to current conditions. An abundance of trailers were once again stored on the Property.	Aerial Photograph
2003	Property listings included: Duncan Duray at 9301 Stewart and Gray; Western Pacific Pulp and Paper at 9333 Stewart and Gray; Jeffrey McKeown, Omniment Industries Inc., Wesfac Inc. were located at 9300 Hall Rd.; Western Pacific Pulp & Paper at 9350 Hall Rd.; and Cindy Burgos at 9400 Hall Rd. Aerojet General, American Suspension, and General Dynamics were listed at 9236 Hall Rd. (adjacent to west).	City Directories
2005	The Property appeared similar to the 2002 photo.	Aerial Photograph
2008	Property listings included: Duncan/Duray, Glenbank Inc., and Omniteam Inc. at 9301 Stewart and Gray; Hydroquip Pump & Dewatering Corp. at 9355 Stewart and Gray; Omni Temp Refrigeration; US Traffic Corm and Wesfac Inc. were located at 9300 Hall Rd., Western Pacific Pulp & Paper at 9350 Hall Rd.; and Kelly Services at 9400 Hall Rd. No listing was present for 9236 Hall Rd. (adjacent to west).	City Directories
2009/2010	The Property appeared similar to the 2005 photo with the exception that bulk trailer storage was no longer present.	Aerial Photograph
2012	The Property appeared similar to the 2010 photo with some trailer storage once again along the north and south central areas.	Aerial Photograph
2013	Property listings included: JF Duncan Duray Industries Inc. at 9301 Stewart and Gray; Access ingredients LLC and Western Pacific Pulp & Paper 9333 Stewart and Gray; Hydroquip Pump at 9355 Stewart and Gray; 88 Logistics Inc. and MJO staffing at 9401 Stewart and Gray. Omni Team Inc. was listed for 9300 Hall Rd. and Maersk Distribution and Western Pacific Pulp and Paper were listed for 9400 Hall Rd.	City Directories

HISTORICAL USE SUMMARY

One structure was depicted at the northeast corner of the Property as early as 1896. By 1928, the majority of the Property, with the exception of the northeast corner, appeared to be agricultural or fallow land with a dirt road that transected the southwest corner. The northeast corner appeared to be occupied by a dwelling or farm that extended beyond the Property line to the east. An orchard appeared present on a portion of the Property from 1942 through 1951. By 1952 some of the current development had been initiated on the Property including the large structure on the eastern portion and two-thirds of the large structure on the western portion which had been extended to its current conditions by 1963. An AST (water tank) was present along the southern boundary (at the centerline) from at least 1952 through at least 1983. By 1972, all of the existing structures were present on the Property. Numerous tenants have occupied the Property including various manufacturing facilities, carpets, furniture, cabinetry, printing, logistics, pulp and paper recycling, etc.

HISTORICAL USE OF ADJOINING SITES

As early as 1896 a railroad was observed adjacent to the north/northeast and Hall Road was present to the north. Woodruff Avenue was present adjacent to the east. In 1928, the surrounding area appeared to be fallow or agricultural land. A railroad track was present to the north/northeast across which was an orchard. By 1963, a large structure was present adjacent to the west of the Property that was occupied by Aerojet (9236 Hall Rd.) through at least 2003. As later discussed, there is information that Aerojet may have also operated on the Property. General Dynamics also operated at the adjacent site to the west.

11 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

In order to identify commonly known or reasonably ascertainable information about the Property, SCS reviewed previous environmental reports and various regulatory agency files and interviewed regulatory agency personnel. The following information was identified.

PREVIOUS ENVIRONMENTAL REPORTS

Prologis provided the following reports for review:

AES Due Diligence, Inc., April 13, 2007. Phase I Environmental Site Assessment, Downey Industrial Center, 9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road, Downey, CA 90241.

AES Due Diligence, Inc., December 5, 2016. Phase I Environmental Site Assessment, Downey Industrial Center, 9300, 9350, 9400 Hall Road and 9301, 9333, and 9399 Stewart and Gray Road, Downey, CA 90241.

The two reports prepared by AES were nearly identical. Although original building permits were reportedly not on record at the building department, information obtained during an interview indicated that the current improvements were constructed in 1951, prior to which it was vacant. Prior uses of the Property included a munitions factory and a manufacturing facility by Aerojet General.

AES identified the presence of two USTs (a 1,000-gallon gasoline and a 15,000-gallon diesel) which were reportedly removed and a no further action letter issued. AES identified that the 9300 and 9400 buildings appeared on the HAZNET database listing as having disposed of small amounts of hazardous waste in the past, however the report did not provide any details on types of waste.

AES concluded in their reports that two historical recognized environmental conditions (HREC) were identified, including (1) the historic "UST" that was closed in 1996 (note that AES identified two former USTs) and (2) historic site use as a manufacturing facility. AES also concluded that based on the age of the buildings, asbestos was suspected, which was identified as a REC. In addition, AES identified the potential for lead based paint was a *de minimis* condition. AES recommended no additional investigation.

Copies of these reports are provided as Appendix in **Appendix D**.

REGULATORY AGENCY RECORDS

Local regulatory agencies and other sources were contacted in an effort to identify any known or suspected contamination sites or incidents of hazardous waste storage or disposal which might have resulted in soil or groundwater contamination within a one-mile radius of the Property. Within the City of Downey, the Los Angeles County Department of Public Works (LACDPW) is the lead enforcement agency for UST compliance. In the event of potential site contamination, the Los Angeles County Fire Department (LACFD) generally assumes oversight. Los Angeles County Department of Public Health (LACDPH) holds records of hazardous materials use and storage. If a tank has leaked and groundwater contamination is suspected, the Los Angeles Regional Water Quality Control Board (LARWQCB) generally becomes the lead agency in supervising contaminant characterization and cleanup.

Copies of the records reviewed are included as **Appendix E**.

Los Angeles County Department of Public Works (LACDPW)

Two files are listed on the LACDPW database of files for their hazardous materials system (list compiled in January 2014) including Duncan Duray Industries and Omni Temp Refrigeration located at 9301 Stewart & Gray Road. SCS requested the files for review at the LACDPW at which time SCS was told these files are related to stormwater and no hard files exist.

Los Angeles County Department of Public Health

SCS requested files from LACDPH associated with the Property addresses at the Los Angeles County Public Health Investigation (PHI) offices in Commerce, California. Three files were available and reviewed at the LACDPH as discussed below.

9300 Hall Road

The records in this file were associated with the Aerojet Ordnance Company with a mailing address of 9236 Hall Road (adjacent to the west of the Property), however the facility listing discussed in the records was reported as 9300 Hall Road, which Aerojet was leasing. A background summary dated January 17, 1986 submitted by Aerojet to the LACDPW in order to get a permit indicated the following:

- Aerojet occupied the facility prior to 1971 for machining operations (making aerospace metal casement parts). The facility was vacant from 1971 through 1973 after which it was occupied by Bowman Industries (importer of automotive stereo equipment) until 1983.
- That no records were available regarding processing fluids and fluid disposal, however discussions had revealed that no toxic solutions were used in the manufacturing processes and that Bowman Industries did not use the tanks or sumps that were being permitted for removal.
- Aerojet Rheem Manufacturing Company, both engaged in aerospace machining operations, "required the use of cutting oils and degreasing fluids which are of the standard non-toxic variety used for many years without change."
- From "outward appearances and inspections" Aerojet concluded that there was no evidence of the use of toxic or hazardous chemicals by previous tenants and the building was considered "totally safe and hazard free for renovations and occupancy by Aerojet."

Permit records indicated that one 15 year old, 10,000 gallon diesel UST was removed and five concrete "tanks" (presumably these were sumps and/or clarifiers) were closed in place. They were listed as 20 years old and included a 400, 500, 1,000, and 14,000 gallon capacity for water and oil and a 280 gallon for oil, grease, and water. A figure designated Boman Industries depicted the subsurface feature locations planned for removal (along with others) and noted that they those remaining in place were abandoned by "filling with compacted fill and concrete paving" and samples were collected for analysis for total hydrocarbons and oil and grease.

Five borings were drilled to 40 feet in depth adjacent to the sumps with samples generally collected at 5-foot intervals. A letter by Geosec dated February 13, 1986 concluded chemical analysis revealed no contamination. However, the laboratory report indicated concentrations of oil and grease in 20 samples ranging from 0.8 to 53.1 milligrams per kilogram (mg/kg) and of total petroleum hydrocarbons (TPH) in five soil samples ranging from 1.5 to 333 mg/kg. Additional tabulated data (no laboratory report available) appeared to be related to samples collected from the tank/sump contents (those to be abandoned and other features such as drain lines, pits, sump, clarifier, etc.) and included analysis for metals, oil and grease, and/or TPH. The data indicate that samples of the contents of these features contained significantly elevated concentrations of metals including chromium (up to 2,056 mg/kg), copper (up to 1,065 mg/kg), zinc (up to 3,150 mg/kg), etc. (it should be noted that the sample with the highest concentrations of metals was apparently collected from a dirt pit). Concentrations of oil and grease were up to 52,000 mg/kg, and TPH concentration up to 430,000 mg/kg were reported. It is unknown if the contents were removed and appropriately disposed prior to abandoning some of the features in place, and it us unknown what occurred with the remaining features (such as the dirt pit).

Records included a February 28, 1986 letter from the LACDPW specifying a hazardous materials underground storage closure permit for 9300 Hall Road. The letter indicated that the LACDPW had reviewed soil sample/groundwater laboratory report required as part of the closure procedure and concluded that "no further subsurface investigation" was necessary. Although closure was provided, it appears some features remained in place and, in addition, analysis for VOCs was not conducted. The historical presence of these subsurface features, some of which appear to remain and some of which were abandoned in place, along with the former aerospace machining operations, are considered RECs.

9350 Hall Road

An application to operate a UST was on record for Western Pacific Pulp and Paper to operate a 1,000 gallon gasoline UST and a 15,000 gallon diesel UST; one of the application forms indicated an installation date of 1983. The tanks were removed in November 1994, at which time five soil samples were collected beneath the USTs; with a "slight gasoline odor" observed. An unauthorized release form dated January 17, 1995 was completed by the LACDPW. Under the substances involved, the form lists concentrations of TPH (18,200), benzene (1.59), toluene (0.158), xylenes (2.23), ethylbenzene (1.92), however no units for these concentrations were identified. The form identified Western Pacific Pulp and Paper as the responsible party and indicated that there was no action taken at the time and the site was being referred to the LARWQCB. A no further action letter from the LARWQCB was issued on August 20, 1996. No additional records were available indicating if remediation was conducted prior to closure. The presence of the former USTs at this locations is considered a REC.

9400 Hall Road

Files for this address were associated with Hudd Distribution Services. Inspection reports indicate the facility conducted warehousing and storage operations, was a non-generator and no permit was issued.

Los Angeles Regional Water Quality Control Board Files

The LARWQCB responded that there were no records on file for the addresses associated with the Property.

South Coast Air Quality Management District

The following facilities on and adjacent to the Property were listed in the SCAQMD's Facility Information Detail (FIND) database:

- Boman Industries (9300 Hall Rd.); All Western Ind, Inc. (9363 Stewart and Gray Rd.) – these facilities are listed in the database, however the only information available indicates that they are "out of business."

- Myers Custome Products, Inc. (9300 Hall Rd.) – This facility was issued a permit to operate a "furnace reverb (rotary) aluminum" in 1997 which is now inactive. No other information was available.

- Omniteam, Inc. (9300 Hall Rd.) – This facility has two permits associated with laser cutters and reportedly received a notice to comply (NTC) in 2005 to discontinue use of "L&J Supply Co-Blend LT 36 WC lacquer thinner" for parts cleaning and replace it with a Rule 1171 compliant solvent. A re-inspection was reportedly conducted in early 2006 and the facility was listed as "in compliance."

- Wesfac, Inc. (9300 Hall Rd.) – This facility had two rejected applications for laser cutters in 2000 and later (in 2005) received a NTC and notice of violation (NOV) associated to operating a laser cutter without a permit. The NOV was listed as "case closed" and the NTC status was "in compliance.

- WPPP (9400 Hall Rd.) – This facility received a NTC in Feb 2012 to use best available control measure to minimize fugitive dust. The re-inspection noted the facility was in compliance. No permitted equipment is located at this facility.

- Duray, Inc. (9301 Stewart and Gray Rd.) – This facility received a NTC associated to operating a plasma arc cutter without a permit. Four permits are on record including plasma arc cutter, baghouse, spray booth (paint and solvent).

- LA Cellular Telephone Co (9355 Stewart and Gray Rd.) – This facility is listed as "sold," however a permit was on record for a diesel-fueled emergency generator.

- Aerojet Ordnance Co (9236 Hall Rd.) – As previously discussed, this facility was located adjacent to the west, however, Aerojet also leased space on the Property at 9300 Hall Road. Numerous permits (listed in **Appendix E**) were on record dated 1960 through 1992. Permits indicated the facility operated a 1,1,1-trichloroethane degreaser, a perchloroethylene degreaser, freon degreaser, scrubbers, wastewater treating, spray booth (paint and solvent), among other equipment related to aerospace activities.

- General Dynamics (9236 Hall Rd.) – This facility was located adjacent to the west. Numerous permits (listed in **Appendix E**) were on record dated 1994 through 1998. Permits indicated the facility operated a 1,1,1-trichloroethane degreaser, a perchloroethylene degreaser, freon degreaser, methylene chloride degreaser, scrubbers, wastewater treating, spray booth (paint and solvent), among other equipment related to aerospace activities.

- Brown Boveri Electric (11711 Woodruff Ave.) – This facility is listed for submitting an application for a "storage tank chlorinated & halogenated" however the application is listed as being canceled indicating it was never issued and presumably the tank was never installed and the facility is listed as "out of business".

The historical use of chlorinated solvents/degreasers on adjacent parcels, and Aerojet's potential use of solvents on the Property at 9300 Hall Road, are considered RECs. Available records and relevant permits are provided in **Appendix E**.

12 REVIEW OF FEDERAL, STATE, TRIBAL, AND LOCAL GOVERNMENT DATABASES

A database search for sites listed on various federal, state, tribal, and local databases in the area around the Property was obtained from EDR (December 29, 2016). A description of each of the databases searched is included in the report, which is attached as **Appendix F**. Among the databases included in the EDR report are NPL (federal, tribal, and state-equivalent), proposed and delisted NPL, CORRACTS (RCRA facilities subject to corrective actions), hazardous waste sites identified for investigation or remediation (SEMS [Superfund Enterprise Management System, formerly known as CERCLIS], State CERCLIS, VCP, Brownfields Calsites, etc.), LUST, sites with engineering controls, former CERCLIS (NFRAP), RCRA and state hazardous waste generators, ERNS, SWLF, USTs, and Toxic Pits.

Review of these records satisfies all requirements as set forth in 40 CFR Section 312.26 (b) and (c) with regard to the review of federal, tribal, and state government records of databases of such government records and local government records and databases of such records pertaining to both the Property and the nearby or adjoining properties. Further, the search distances for each particular database are as specified in 40 CFR 312.26 and ASTM E1527-13.

Any known or suspected contaminated sites included on these lists within 0.25 miles of the Property are discussed in the following text. As a general rule, sites beyond 0.25 miles are not anticipated to impact a site significantly. Any sites beyond 0.25 miles with a high potential to impact the Property are also discussed. (Please note: the distances and directions listed in this report have been field verified and might not always match those in the EDR report.)

Sites such as TSD facilities, hazardous waste generators, HAZNET, FINDS, SQGs, LQGs, USTs, HIST UST, RCRA violations, and TRIS facilities with toxic chemical releases (generally in accordance with permitting requirements - into the air, water, or land as reported under SARA Title III) use or store hazardous materials and thus may pose a potential problem in the event of a spill or leak. However, unless these sites also appear in an agency list of contaminated sites, there is no evidence of any problems at this time. Therefore, sites on these lists will not be discussed unless on or in close proximity to the Property.

Please refer to **Appendix F** for further information on these sites.

PROPERTY LISTINGS

Addresses associated with the Property have included 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey. The Property appears on the database report 22 times, under one or more of these addresses, as follows:

- 9300 Hall Road – Omni Team Inc (Haznet); Intersection Develop (RCRA NonGen/NLR, FINDS, Haznet, ECHO); Aerojet Ordnance Co (Los Angeles Co HMS, Sweeps UST) – Facilities at this address reportedly disposed of waste and mixed oil, alkaline solution, ignitable and reactive waste, detergent waste chemicals, hydrocarbon solvents (benzene, hexane, Stoddard, etc.), off-specification, aged, or surplus organics, other organic solid waste, unspecified solvent mixture. Aerojet Ordnance Co is listed as a “removed” facility

on the LA County HMS database and as a UST site, however the number of tanks was not designated.

- 9350 Hall Road – Western Pacific Pulp (FINDS, LUST, SWEEPS, UST, Haznet, Hist Cortese, RGA LUST, SSTS, Los Angeles Co HMS) – This facility reportedly disposed of other organic solids and waste/mixed oil and had a release of gasoline from a UST into soil. The case (Global ID T0603704078) was closed by the LARWQCB in 1996. No other information is available in the database report or on the GeoTracker website. Information provided from the SWEEPS database indicates there were two USTs at this location. The facility is listed as "removed" from the Los Angeles County HMS database. The former leaking UST and presence of two USTs are considered RECs.

- 9400 Hall Road – Maersk Downey (Haznet); Anderson Trucking Co (Haznet); Heger Reality Ct (Haznet); Western Pacific Pulp & Paper (ICIS, FINDS, Haznet); Hudd Distribution SE (Los Angeles Co HMS) - Facilities at this address reportedly disposed of oxygenated solvents (acetone, butanol, ethyl acetate, etc.), other organic solid waste, unspecified oil-containing waste, unspecified organic liquid mixture, and liquids with halogenated organic compounds greater than 1,000 milligrams per liter. Of specific note, in 1995 Heger Realty disposed of tank bottom waste and halogenated solvents (chloroform, methyl chloride, perchloroethylene). It is likely (since Heger was listed as property owner on the permit) that the tank bottom wastes are related to the removal of the USTs at 9350 Hall Road conducted in November 1994. The LA County HMS status for Hudd Distribution is listed as "open." The disposal of tank bottom wastes (indicating the presence of former UST[s]) and halogenated solvents is considered a REC.

  The Integrated Compliance Information System (ICIS) database is a newer database that is in the process of compiling information from most of EPA's programs. Available information indicates that a notice of violation (NOV) was issued to Western Pacific Pulp & Paper, no other information on the NOV was available.

- 9301 Stewart & Gray Road – Duray Inc (FINDS, EMI); Duray/JF Duncan Indu (Haznet, Los Angeles Co HMS); Omni Temp Refrigerat (Los Angeles Co HMS) – Duray is listed as having had air permits associated with some type of emissions as early as 1987 through 2001 and has disposed of unspecified aqueous solution. The LA County HMS statuses for both facilities are listed as "open."

- 9333 Stewart & Gray Road – Access Ingredients (Haznet) – This facility reportedly disposed of off-specification, aged, or surplus organics.

ADJACENT SITE LISTINGS

Gould-Brown Boveri, 11711 Woodruff Avenue (adjacent to the east) is listed on the RCRA-SQG, FINDS, and ECHO databases. Other than the fact that no violations were found, no additional information was provided. It is not anticipated that this facility would impact the Property.

Holm Industries/Coast Polymers Inc., 9368 Stewart and Gray Road (adjacent to south) is listed on the UST/LUST database and experienced a release of diesel into soil. The case was closed in 2011 and, based on case type and status, is not anticipated to impact the Property.

Primex Technologies/Olin Ordinance/General Dynamics, 9236 Hall Road (adjacent to west) are listed on the SLIC, UST, Envirostor, RCRA-SQG, FINDS, WDS, SWEEPS UST, HIST UST, CA FID UST, EMI, and LA County HMS databases. The facility reportedly has (or had) nine USTs, the status of which is listed as "active." Additional information on the USTs was reviewed on the GeoTracker database indicated that USTs were installed in 1979 and included a 10,000 gallon gasoline tank and various sumps. The UST information is similar (and may be related) to that reviewed in LACDPH files for the Property at 9300 Hall Road where one UST was removed and 8 concrete sumps/clarifiers were abandoned in place by Aerojet who had leased this area of the Property.

The facility reportedly generated and disposed of hazardous wastes including ignitable, corrosive, and reactive wastes, halogenated solvents used in degreasing, spent halogenated and non-halogenated solvents, and wastewater treatment sludge. The SLIC case was reported to be associated with a release of volatile organic compounds (VOCs) and is listed as "completed – case closed" as of 1999. The SLIC (Global ID SLT43200198) and Envirostor cases were reviewed on the associated online databases. The Envirostor listing is related to a tiered permit and no information or data was available on the types and concentrations of VOCs associated with the release; this and the fact that the facility conducted degreasing operations that used and disposed of halogenated solvents, constitutes a REC with respect to the Property.

OTHER DATABASE SITES

The EDR report provides a summary table of regulatory database sites within specified distances of the Property, including: 1. standard environmental records, 2. additional environmental records, and 3. high risk historical records. This summary table is provided beginning on page 4 of the EDR report (**Appendix F**). In addition to the Property and adjacent sites listings discussed above, SCS identified the following sites of concern within 0.25 miles of the Property:

- Reed Grain & Milling Co, 11814 Woodruff Avenue (260 feet east) (Drycleaners, Haznet)
- Inco Express Inc, 11941 S. Woodruff Avenue (680 feet south) (LUST, HIST UST)
- Firestone Chrysler Plymouth, 9262 Firestone Boulevard (185 feet north) (RCRA-SQG, SWEEPS UST, HIST UST, FINDS, LA Co HMS, ECHO)
- McGean Chem Co Inc., 9520 E. Cee Bee Drive (525 feet east) (RCRA-SQG, FINDS, ECHO, RCRA-SQG, SWEEPS UST, LA Co HMS, LUST, HIST Cortese)
- SR Maintenance & Management Services Inc, 9525 Stewart and Gray Road (0.13 miles east) (Drycleaners, Haznet)
- Kirkhill Inc., 12021 Woodruff Avenue (0.14 miles south) (RCRA-SQG, LUST, FINDS, HIST Cortese, ECHO)

Based on database listing type and fact that no release has been reported, regulatory status, type of violation, distance, and/or anticipated groundwater gradient, the sites listed above are not anticipated to significantly impact the Property.

> **Shell Service Station,** 9305 Firestone Boulevard (0.15 miles south/southeast) (RCRA-SQG, HIST UST, FINDS, HAZNET, LA Co HMS, ECHO, LUST, SWEEPS UST, CA FID UST) – This facility reportedly had two releases from USTs. One (Global ID T0603703423) release was associated with gasoline in soil and the case was closed in June 1996. The second case (Global ID T0603748443) was reportedly for a release of "other solvent or non-petroleum hydrocarbon into aquifer used for drinking water supply." According to the EDR database report, the status is "pollution characterization," however, information reviewed on the GeoTracker database indicates that the case was closed in 2004. Based on the case status reported by GeoTracker, distance from the Property, and groundwater flow direction (southerly), this facility is unlikely to impact the Property.

The other sites within 0.25 miles of the Property are leaking sites that are downgradient or based on case status are not anticipated to impact the Property. In addition, other sites within 0.25 miles do not have known releases such as RCRA small quantity generators, HAZNET, FINDS, and USTs sites. None are known to have any contamination at this time; therefore, none are anticipated to have impacted the Property. Similarly, none of the sites situated beyond 0.25 miles are anticipated to have impacted the Property.

Unmappable or Orphan Sites

One unmappable site was identified in the EDR Report. Unmappable sites cannot be plotted due to inaccurate or incomplete addresses. Based on review of the provided data, including the estimated locations of the unmappable site in relation to the Property, it appears unlikely that the unmappable sites have adversely affected the environmental condition of the Property.

LANDFILLS

A review of the Major Waste Systems Map (June 1972) was conducted to locate any landfills or transfer stations within a one-mile radius of the Property. A privately-owned transfer station was identified approximately 0.20 miles to the southeast of the Property. In addition an inactive Class II landfill was identified approximately 0.40 miles to the northeast with a listing address of 11014 S. Pangborn Avenue.

No additional active or inactive landfills were identified within 0.25 mile of the Property according to the EDR-provided Solid Waste Information System database.

OIL AND GAS WELLS

Available oil and gas well maps from the California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR) were reviewed to identify oil and gas wells on the Property or in the nearby area. According to the Digital Online Mapping System (DOMS 2.1), no wells were identified within 0.5 mile of the Property. Based on the available information, no significant environmental impacts to the Property are anticipated from oil and gas wells.

NATIONAL PIPELINE MAPPING SYSTEM (NPMS)

SCS reviewed the NPMS website (https://www.npms.phmsa.dot.gov/PublicViewer/) for the Property and surrounding area to identify any hazardous materials pipelines. The NPMS is a geographic information system (GIS) created by the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA), and Office of Pipeline Safety (OPS) in cooperation with other federal and state governmental agencies and the pipeline industry. The NPMS consists of geospatial data, attribute data, public contact information, and metadata pertaining to the interstate and intrastate hazardous liquid trunklines and hazardous liquid low-stress lines as well as gas transmission pipelines, liquefied natural gas (LNG) plants, and hazardous liquid breakout tanks (tanks that receive and store liquids transported by pipeline) jurisdictional to PHMSA. The nominal accuracy of geospatial data in the NPMS is +/-500 feet. The NPMS does not contain information on interconnects, pump and compressor stations, valves, direction of flow, capacity, throughput, or operating pressure. In addition, distribution and gathering pipelines are not included in the NPMS.

The NPMS is built from data submitted by pipeline, LNG plant, and breakout tank facility operators. Since 2002, transmission pipeline and LNG plant facility operators are required to submit mapping information to the NPMS and to update their submissions annually. Breakout tank operators are able to submit data to the NPMS on a voluntary basis.

Based on review of the NPMS website, there are no hazardous materials pipelines within 0.25 miles of the Property.

13 USER PROVIDED INFORMATION

A User Questionnaire was not returned to SCS for inclusion in the report, however the following information was discussed verbally with Prologis.

TITLE RECORDS

No title report was provided to SCS for review.

ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No information regarding environmental liens or activity and use limitations was provided to SCS. No environmental liens or activity/use limitations were identified by SCS during the course of this assessment.

SPECIALIZED KNOWLEDGE

No specialized knowledge regarding the Property was provided to SCS by the User.

VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

The purchase price being paid for the Property reasonable reflects the fair market value.

14 DEGREE OF OBVIOUSNESS OF THE PRESENCE/LIKELY PRESENCE OF CONTAMINATION ON THE PROPERTY

The Property has a complex history of various tenants, many of which conducted manufacturing operations (including aerospace). Information reviewed during the course of this ESA documented the use of chlorinates solvents on and adjacent to the Property, and the presence of three USTs and other subsurface features, all of which constitute RECs with regard to the Property. Based on these RECs, identified above and in the summary of findings below, further investigation is recommended to assess the potential for contamination at the Property.

15 DATA GAPS

A data gap represents an inability on the part of the environmental professional to obtain information required by the standards and practices of 40 CFR 312 to fully identify conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the Property.

The following data gaps were identified:

- The first development of the Property was unable to be determined.
- An information request for building permit records was made with the City of Downey City Clerk and as of the date of this report, had not been received.

Based on the available information these data gaps are not considered significant.

16 FINDINGS AND OPINIONS

Based on the scope of work performed, SCS finds the following:

- The Property consists of approximately 29 acres located between Hall Road (to the north) and Steward and Gray Road (to the south) on the block bounded to the east by Woodruff Avenue and to the west by Coldbrook Avenue. The Property consist of five parcels that have been assigned Assessor's Parcel Numbers (APNs) 6284-019-013 through -017. The Property is commercial/industrial land currently developed with four primary structures (two large and 2 small) occupied by five tenants, associated parking areas, storage yards, and canopy areas.

- The site inspection identified that the Property is divided into five areas each occupied by different tenants (Omniteam, Duray Duncan, Western Pacific Pulp & Paper, EJ Lauren, and 88 Logistics) that manufacturing of commercial grade stainless steel products and sofa's, along with warehousing and logistics, and a paper recycling facility. Two of the five tenants conduct minor maintenance of their vehicle fleets and store associated new and used oils and other vehicle fluids. Numerous patch areas and steel plated vault/trenches were observed in the larger warehouse buildings. A well was observed at the south end of Building 1A. No information could be provided to SCS regarding the well. The subsurface features observed within the structures represent a REC.

- Numerous patch areas and steel plated vault/trenches were observed in the larger warehouse buildings. A well was observed at the south end of Building 1A. No information could be provided to SCS regarding the well. The subsurface features observed within the structures represent a REC.

- Numerous tenants have occupied the Property including various manufacturing facilities, carpets, furniture, cabinetry, printing, logistics, pulp and paper recycling, etc. Chemical use by these historical tenants is unknown. The presence of various historic manufacturing operations with unknown chemical use on the Property constitutes a REC.

- Available records on the SCAQMD's Facility Information Detail (FIND) database indicate the use of degreasers containing chlorinated solvents on the parcel directly adjacent to the west (9236 Hall Road) by two former occupants, Aerojet and General Dynamics. One of these former neighbors, Aerojet, also occupied (prior to 1971) the portion of the Property located at 9300 Hall Road and thus may have conducted operations on the Property. Permits for the adjacent site at 9236 Hall Road indicated that both Aerojet and General Dynamics operated a 1,1,1-trichloroethane degreaser, a perchloroethylene degreaser, a Freon degreaser, scrubbers, wastewater treating equipment, a spray booth (paint and solvent), and other equipment related to aerospace manufacturing activities. The use of chlorinated solvents adjacent to, and potentially on the Property, constitutes a REC.

- Los Angeles County Department of Public Works (LACDPW) records indicated that Aerojet occupied the adjacent parcel to the west from at least 1971 to 2003, and leased the building at 9300 Hall Road for use, including aerospace machining operations, for a period of time up to 1971. A number of subsurface features were used during this time, including a 10,000 gallon diesel underground storage tank (UST; unknown installation date) and various concrete sumps and/or clarifiers. The UST was removed and some of the sump/clarifiers were abandoned in place in 1986. A no further action letter was issued by the LACDPW on February 28, 1986 for certain concrete oil, grease, and water "tanks;" the 10,000-gallon UST was not included in this closure letter. Other subsurface features (drain lines, pit, sump, clarifier, etc.) were listed in the LACDPW records and it is anticipated these remain in place. Samples collected in 1985, from the contents of these features (both those removed and those that are anticipated to remain) revealed elevated concentrations of metals, total petroleum hydrocarbons (TPH), and oil and grease (analysis for volatile organic compounds [VOCs] was not conducted). The highest metals concentrations were detected in a sample collected from a "dirt pit." The disposition of the clarifiers, pits, sumps and other facilities contents from which samples were collected is unknown. The presence of these subsurface features, some of which currently appear to remain and some of which were abandoned in place, along with the former aerospace machining operations, are considered a REC.

- Two USTs (a 1,000 gallon gasoline and a 15,000 gallon diesel) were formerly located at the Western Pacific Paper and Pulp facility at 9350 Hall Road. A release of up to 18,200 (presumably mg/kg, however the units were not reported) of TPH was summarized on an unauthorized release report that referred the case from the LACDPW to the Los Angeles Regional Water Quality Control Board (LARWQCB). Although the LARWQCB issued

a no further action letter in 1996, there is no record that any remediation was conducted, therefore the presence of the former USTs and associated release constitute a REC.

- In 1995, Heger Reality disposed of tank bottom wastes (based on the date, this may be associated with the USTs removed at 9350 Hall Road) and halogenated solvents from the address of 9400 Hall Road. The disposal of tank bottom wastes (indicating the presence of former UST[s]) and halogenated solvents is considered a REC.

In summary, SCS has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the Downey Industrial Center located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California. Any exceptions to, or deletions from, this practice are described in Section 5 of this report. In the opinion of the Environmental Professionals, this assessment has revealed evidence of conditions indicative of recognized environmental conditions in connection with the Property, as follows:

- Numerous patch areas and steel plated vault/trenches were observed in the larger warehouse buildings. A well was observed at the south end of Building 1A. No information could be provided to SCS regarding the well. The subsurface features observed within the structures represent a REC.

- Numerous tenants have occupied the Property including various manufacturing facilities, carpets, furniture, cabinetry, printing, logistics, pulp and paper recycling, etc. Chemical use by these historical tenants is unknown. The presence of various historic manufacturing operations with unknown chemical use on the Property constitutes a REC.

- Available records on the SCAQMD's Facility Information Detail (FIND) database indicate the use of degreasers containing chlorinated solvents on the parcel directly adjacent to the west (9236 Hall Road) by two former occupants, Aerojet and General Dynamics. One of these former neighbors, Aerojet, also occupied (prior to 1971) the portion of the Property located at 9300 Hall Road and thus may have conducted operations on the Property. Permits for the adjacent site at 9236 Hall Road indicated that both Aerojet and General Dynamics operated a 1,1,1-trichloroethane degreaser, a perchloroethylene degreaser, a Freon degreaser, scrubbers, wastewater treating equipment, a spray booth (paint and solvent), and other equipment related to aerospace manufacturing activities. The use of chlorinated solvents adjacent to, and potentially on the Property, constitutes a REC.

- Los Angeles County Department of Public Works (LACDPW) records indicated that Aerojet occupied the adjacent parcel to the west from at least 1971 to 2003, and leased the building at 9300 Hall Road for use, including aerospace machining operations, for a period of time up to 1971. A number of subsurface features were used during this time, including a 10,000 gallon diesel underground storage tank (UST; unknown installation date) and various concrete sumps and/or clarifiers. The UST was removed and some of the sump/clarifiers were abandoned in place in 1986. A no further action letter was issued by the LACDPW on February 28, 1986 for certain concrete oil, grease, and water "tanks;" the 10,000-gallon UST was not included in this closure letter. Other subsurface features (drain lines, pit, sump, clarifier, etc.) were listed in the LACDPW records and it

is anticipated these remain in place. Samples collected in 1985, from the contents of these features (both those removed and those that are anticipated to remain) revealed elevated concentrations of metals, total petroleum hydrocarbons (TPH), and oil and grease (analysis for volatile organic compounds [VOCs] was not conducted). The highest metals concentrations were detected in a sample collected from a "dirt pit." The disposition of the clarifiers, pits, sumps and other facilities contents from which samples were collected is unknown. The presence of these subsurface features, some of which currently appear to remain and some of which were abandoned in place, along with the former aerospace machining operations, are considered a REC.

- Two USTs (a 1,000 gallon gasoline and a 15,000 gallon diesel) were formerly located at the Western Pacific Paper and Pulp facility at 9350 Hall Road. A release of up to 18,200 (presumably mg/kg, however the units were not reported) of TPH was summarized on an unauthorized release report that referred the case from the LACDPW to the Los Angeles Regional Water Quality Control Board (LARWQCB). Although the LARWQCB issued a no further action letter in 1996, there is no record that any remediation was conducted, therefore the presence of the former USTs and associated release constitute a REC.

- In 1995, Heger Reality disposed of tank bottom wastes (based on the date, this may be associated with the USTs removed at 9350 Hall Road) and halogenated solvents from the address of 9400 Hall Road. The disposal of tank bottom wastes (indicating the presence of former UST[s]) and halogenated solvents is considered a REC.

In addition, the following business environmental risk (BER) was identified:

- During the site inspection, it was brought to SCS' attention that an underground storage area or bunker may exist at the northwest corner of the Property, in the area of the Duray (9301 Stewart and Gray Road) and Omniteam (9300 Hall Road) facilities. Comments by tenants at these businesses suggested the bunker was used during World War II and that it housed chemicals. No evidence regarding the presence of this feature was observed during the site inspection, and its current or past existence has not been confirmed.

Based on the identified RECs at the Property, additional investigation is recommended.

17 REFERENCES

AES Due Diligence, Inc., April 13, 2007. Phase I Environmental Site Assessment, Downey Industrial Center, 9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road, Downey, CA 90241.

AES Due Diligence, Inc., December 5, 2016. Phase I Environmental Site Assessment, Downey Industrial Center, 9300, 9350, 9400 Hall Road and 9301, 9333, and 9399 Stewart and Gray Road, Downey, CA 90241.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources Website: http://www.conservation.ca.gov/dog/Pages/Index.aspx.

California Department of Health Services, *California Indoor Radon Levels Sorted by Zip Code*, http://www.cdph.ca.gov/healthinfo/environhealth/Documents/Radon/CaliforniaRadonDatabase.pdf. Updated May 4, 2010.

California Department of Water Resources. *Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County*. Bulletin No. 104. Reprinted April 1988.

California Environmental Protection Agency, State Water Resources Control Board. GeoTracker website; http://geotracker.waterboards.ca.gov/

Environmental Data Resources, Inc., www.edrnet.com, 1-800-352-0050.

City of Downey Building and Safety Division, 11111 Brookshire Avenue, Downey, California 91731, (562) 904-7142.

Los Angeles County Countywide General Plan, *Major Waste Systems, Project Planning & Pollution Control Division – County Engineer, Regional Planning Commission.* July 1973, Updated October 1996.

Los Angeles Regional Water Quality Control Board, 320 W. 4th St. Suite 200, Los Angeles, CA 90013, (213) 576-6636.

National Pipeline Mapping System online maps. https://www.npms.phmsa.dot.gov/PublicViewer/.

18 GLOSSARY/DEFINITIONS

AAI -- All Appropriate Inquiry
AUL -- Activity and Use Limitations
BTEX -- benzene, toluene, ethylbenzene, and total xylenes
CERCLA -- Comprehensive, Environmental Response, Compensation, and Liability Act
CERCLIS -- Comprehensive Environmental Response, Compensation, and Liability Information System
CFR -- Code of Federal Regulations
CORRACTS -- Corrective Action Against Responsible Parties at a RCRA site
CREC -- A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, AULs, or institutional or engineering controls).
DOGGR -- Department of Oil, Gas, and Geothermal Resources
De Minimis Condition -- A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not RECs or CRECs.
DTSC -- California EPA Department of Toxic Substances Control
EDR -- Environmental Data Resources, Inc.
EPA -- Environmental Protection Agency
ERNS -- Emergency Response Notification System
ESA -- Environmental Site Assessment
FINDS -- Facility Index System
HAZNET -- California EPA Hazardous Waste Facility and Manifest Data
HREC -- Historical Recognized Environmental Condition: A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls
LQG -- Large Quantity Hazardous Waste Generator
LUST -- Leaking Underground Storage Tank
MCL -- Maximum contaminant level
MTBE -- Methyl-tert-butyl-ether
NFA -- No Further Action determination
NFRAP -- No Further Remedial Action Planned
NPL -- National Priority List (Superfund)
PAHs -- Polynuclear aromatic hydrocarbons
PCBs -- Polychlorinated biphenyls
PRGs -- Preliminary Remediation Goals
RCRA -- Resource Conservation and Recovery Act
RCRIS -- Resource Conservation and Recovery Information System

RECs -- R*ecognized environmental conditions* is defined by ASTM E 1527-13 as: "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimis conditions* are not *recognized environmental conditions*."

ROD -- Record of Decision

RBSLs -- Risk-based Screening Levels

RWQCB -- Regional Water Quality Control Board

SARA -- Superfund Amendments and Reauthorization Act

SLIC -- Spills, Leaks, Investigations, and Cleanups database

SQG -- Small Quantity Hazardous Waste Generator

SWIS -- Solid Waste Information System

SWLF -- Solid Waste Facility/Landfills

TPH -- Total Petroleum Hydrocarbons

TRIS -- Toxic Release Inventory System

TSD -- Treatment, Storage, and/or Disposal Facility

User -- The person or persons seeking to establish the innocent landowner defense, bona fide prospective purchaser liability protection, and/or contiguous property owner liability protection pursuant to CERCLA sections 101 and 107.

USGS -- United States Geologic Survey

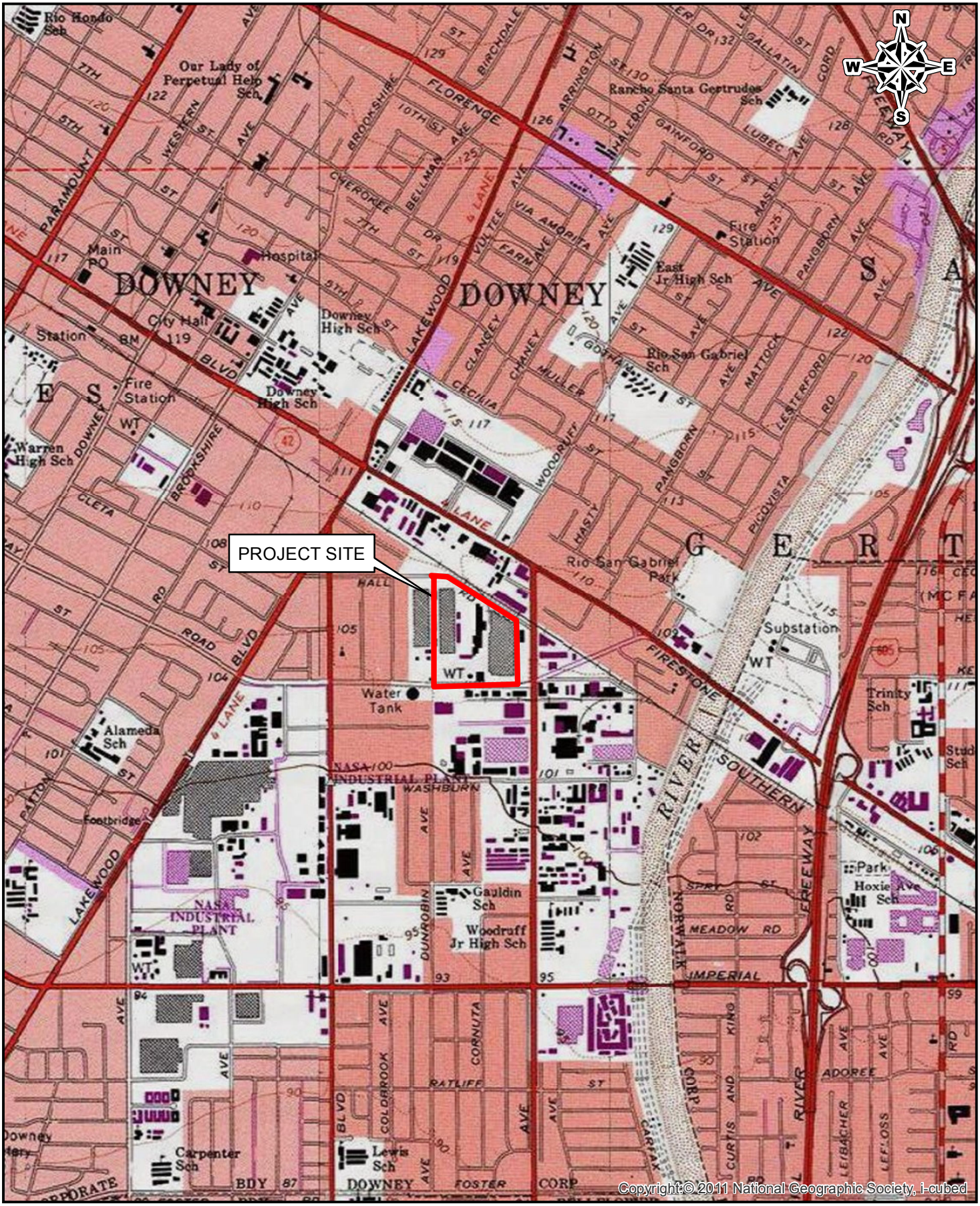
UST -- Underground Storage Tank

VCP -- Voluntary Cleanup Program

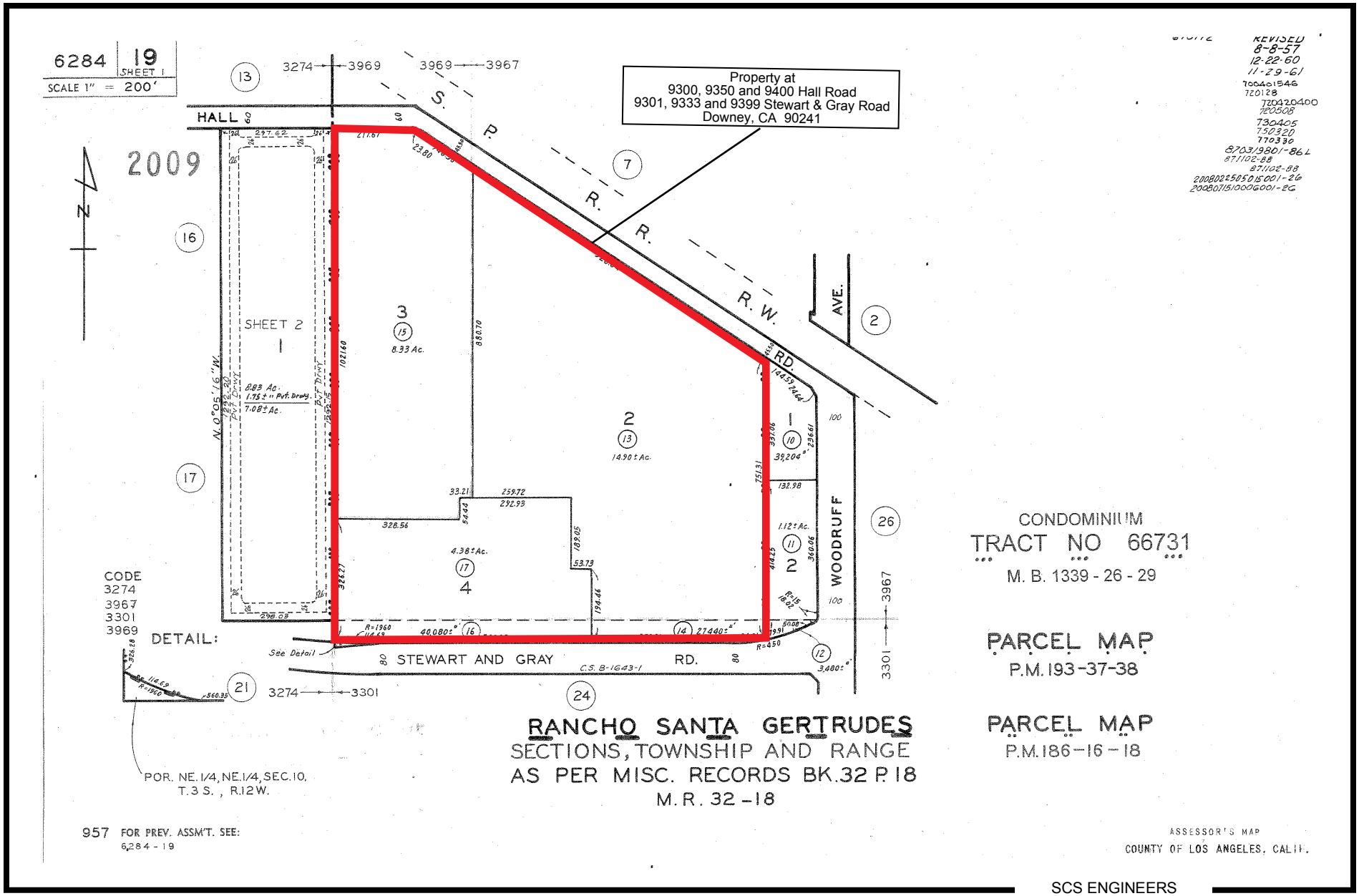
VOCs -- Volatile organic compounds

APPENDIX A

FIGURES 1 THROUGH 3



SCS ENGINEERS 3900 KILROY AIRPORT WAY, STE 100 LONG BEACH, CALIFORNIA 90806-6816	SITE: 9300, 9350, & 9400 Hall Road 9301, 9333, & 9399 Stewart Gray Road Downey, California 90241	Job No.: 01216368.00 Title: SITE LOCATION MAP	FIGURE 1



SCS ENGINEERS

Figure 2. Assessor's Parcel Map (APNs: 6284-019-013 through 017)

(EXISTING) SITE PLAN

SCALE: 1" = 60'-0"

NORTH

SUMMARY:

BUILDING - 1A

ADDRESS: 9300 HALL ROAD

TWO-STORY

FIRST FLOOR OFFICE	13,400 SF
SECOND FLOOR OFFICE	15,901 SF
WAREHOUSE	71,308 SF
TOTAL AREA	100,699 SF

FOOTPRINT = 84,708 SF

BUILDING - 1B

ADDRESS: 9301 STEWART AND GRAY STREET

TWO-STORY

FIRST FLOOR OFFICE	5,022 SF
SECOND FLOOR OFFICE	5,309 SF
WAREHOUSE	57,847 SF
TOTAL AREA	68,178 SF

FOOTPRINT = 62,869 SF

BUILDING - 2A

ADDRESS: – 9400 HALL ROAD

TWO-STORY

FIRST FLOOR OFFICE	4,824 SF
SECOND FLOOR OFFICE	4,824 SF
WAREHOUSE	128,092 SF
TOTAL AREA	137,740 SF

FOOTPRINT = 132,974 SF

BUILDING - 2B

ADDRESS: – 9399 STEWART AND GRAY STREET

TWO-STORY

FIRST FLOOR OFFICE	3,500 SF
SECOND FLOOR OFFICE	4,175 SF
WAREHOUSE	99,010 SF
TOTAL AREA	106,685 SF

FOOTPRINT = 102,560 SF

BUILDING - 3

ADDRESS: – 9333 STEWART AND GRAY STREET

ONE-STORY

FOOTPRINT = 6,994 SF

JOHN G. CATALDO A.I.A. C.S.I.

AR

Figure 3. Site Schematic

Source: Provided by Heger Industrial

APPENDIX B

AERIAL IMAGE AND SITE PHOTOGRAPHS

LEGEND

PROPERTY LINE

1 PHOTOGRAPH LOCATION

N

GRAPHIC SCALE

0 200 400

SCALE IN FEET

SHEET TITLE: AERIAL IMAGE SHOWING PHOTO LOCATIONS

PROJECT TITLE: DOWNEY INDUSTRIAL CENTER
9300, 9350, and 9400 Hall Road
9301, 9333, and 9399 Stewart & Gray Road
Downey, California

CLIENT: PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH: (562) 426-9544 FAX: (562) 427-0805

PROJ NO. 01216368.00 T3 | DSN. BY: CH | CHK. BY: KWG | DWN. BY: APH | APP. BY: KWG | ACAD FILE: PROJECTS/01216368

DATE: JANUARY 2017

SCALE: 1"=200'

APPENDIX NO. B

\\lbc-fs01\DATA\PROJECTS\01216368.00\Task 1 - Phase 1\Design\01216368 - Prologis - pHOTO LOCATIONS.dwg Jan 31, 2017 - 6:1pm By: 2178aph

9300 Hall Road

Photo 1. Southerly view of Omniteam, Inc. at 9300 Hall Road.

Photo 2. Northeasterly view of the Omniteam structure.

9300 Hall Road

Photo 3. Southerly view of the Omniteam yard.

Photo 4. Northerly view of the Omniteam yard.

9300 Hall Road

Photo 5. View of only vegetated area on the Property located on the northwesterly boundary.

Photo 6. Potential clarifier located in yard at Omniteam.

9300 Hall Road

Photo 7. Omniteam facility.

Photo 8. Omniteam facility.

9350 Hall Road

Photo 9. Southerly view of entrance to 9350 Hall Rd. and Structure at 9300 Hall Rd.

Photo 10. Southerly view of Western Pacific Pulp & Paper.

9350 Hall Road

Photo 11. Southerly view between 9350 and 9400 Hall Road.

Photo 12. View of potential clarifier to east of 9350 Hall Rd. structure.

9350 Hall Road

Photo 13. Storage of Western Pacific Pulp & Paper products.

Photo 14. View of Western Pacific Pulp & Paper yard.

9350 Hall Road

Photo 15. Western Pacific Pulp & Paper bailing equipment.

Photo 16. Western Pacific Pulp & Paper hazardous materials storage.

4000 Hall Road

Photo 17. EJ Lauren at 9400 Hall Road.

Photo 18. EJ Lauren facility.

4000 Hall Road

Photo 19. Repair of fire area at EJ Lauren.

Photo 20. View of fire damage at EJ Lauren (9400 Hall Road).

9333/9399 Stewart and Gray Road

Photo 21. Southwesterly view of lot at 88 Logistics at 9399 Stewart & Gray Road.

Photo 22. Westerly view of lot across 9399 Stewart & Gray Road.

9333/9399 Stewart and Gray Road

Photo 23. Northerly view at 9399 Stewart and Gray Road.

Photo 24. Westerly view of 9333/9363 Stewart and Gray structure at 88 Logistics facility.

9333/9399 Stewart and Gray Road

Photo 25. Previous subsurface feature observed at 9399 Stewart and Gray Rd.

Photo 26. Storage at 88 Logistics facility.

9333/9399 Stewart and Gray Road

Photo 27. Additional view of 88 Logistics facility.

Photo 28. Additional view of 88 Logistics facility.

9301 Stewart and Gray Road

Photo 29. Northerly view of 9301 Stewart and Gray, occupied by Duray.

Photo 30. Baghouse equipment (not in use) at northeast corner of Duray facility.

9301 Stewart and Gray Road

Photo 31. Hazardous waste storage at Duray (eastern boundary).

Photo 32. Equipment used in Duray operations.

9301 Stewart and Gray Road

Photo 33. Duray facility.

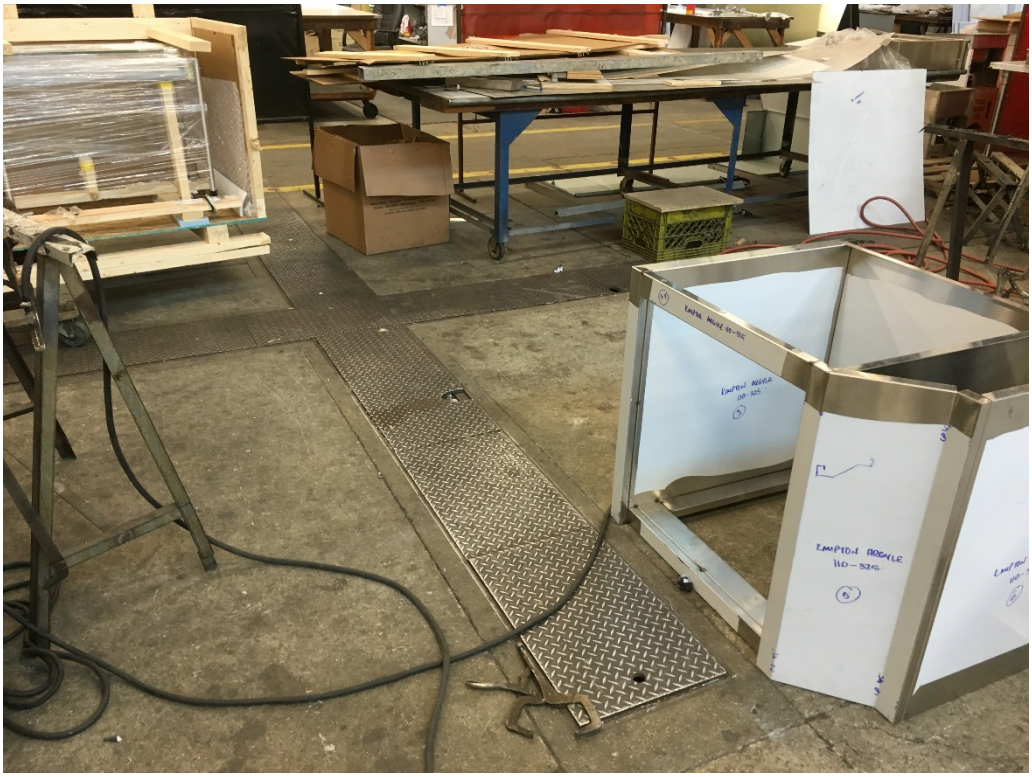


Photo 34. Metal plates covering trenches (not associated with current operations) at Duray facility.

9301 Stewart and Gray Road

Photo 35. Trench/sump area housing pipelines from previous operations at 9301 Stewart and Gray.

Photo 36. Compressed gases used at Duray.

APPENDIX C

HISTORICAL SITE USE INFORMATION

(Aerial Photographs, City Directories, and Topographic Maps)

9300, 9350 and 9400 Hall Road

9301, 9333 and 9399 Stewart & Gray Road

Downey, CA 90241

Inquiry Number: 4816690.9

December 29, 2016

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/29/16

Site Name:

9300, 9350 and 9400 Hall Roa
9301, 9333 and 9399 Stewart &
Downey, CA 90241
EDR Inquiry # 4816690.9

Client Name:

SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA 90806
Contact: Kim Braun

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 11, 2002	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: May 29, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: October 30, 1972	EDR Proprietary Brewster Pacific
1963	1"=500'	Flight Date: February 28, 1963	USGS
1952	1"=500'	Flight Date: November 17, 1952	USDA
1938	1"=500'	Flight Date: May 24, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

INQUIRY #: 4816690.9
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 4816690.9
YEAR: 2010
= 500'
N
EDR

INQUIRY #: 4816690.9
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 4816690.9
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 4816690.9
YEAR: 2002
= 500'
N
EDR

INQUIRY #: 4816690.9

YEAR: 1994

= 500'

N

EDR

INQUIRY #: 4816690.9
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 4816690.9
YEAR: 1983
= 500'
N
EDR

INQUIRY #: 4816690.9

YEAR: 1977

= 500'

N

EDR

INQUIRY #: 4816690.9
YEAR: 1972
= 500'
N
EDR

INQUIRY #: 4816690.9

YEAR: 1963

= 500'

N

EDR

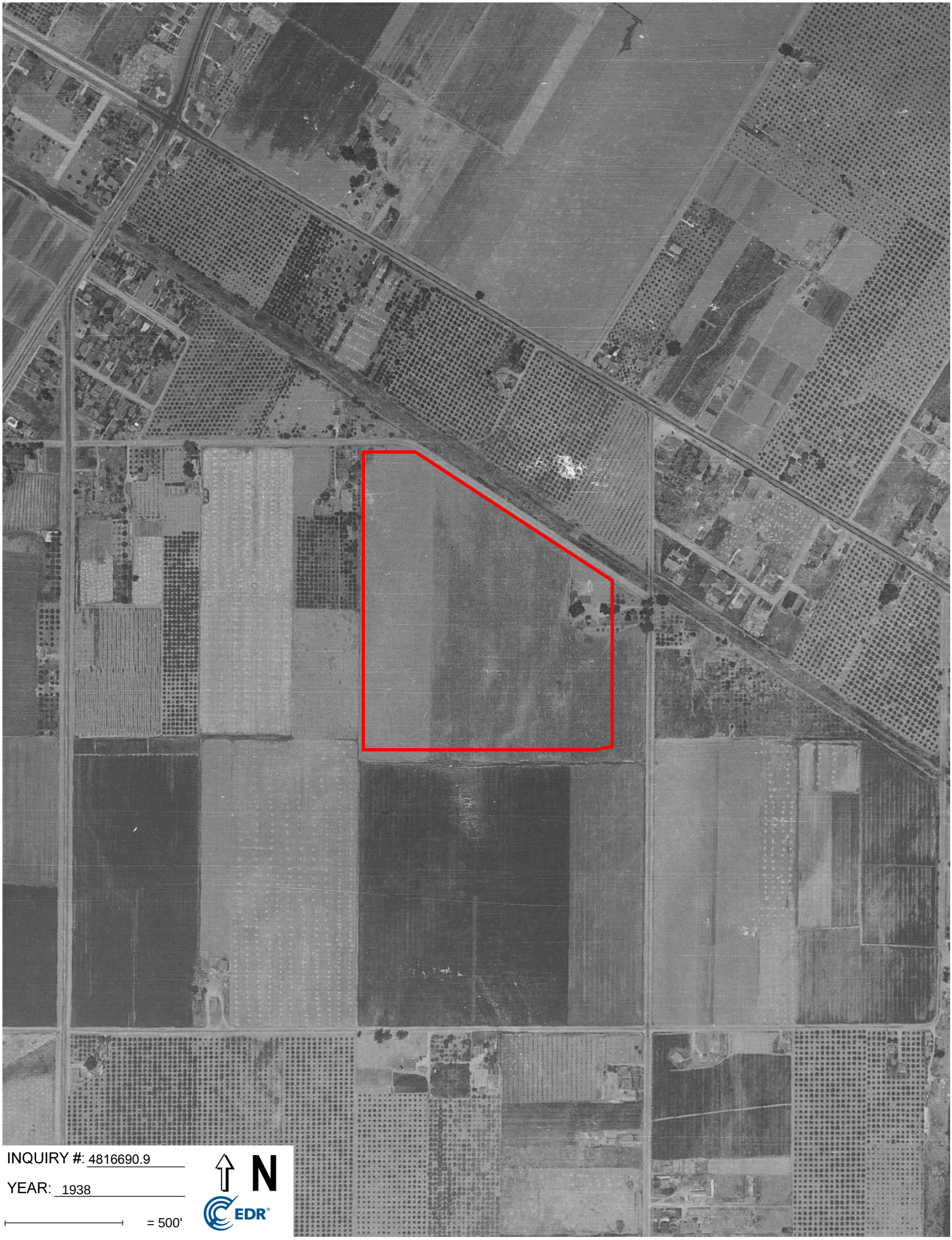
INQUIRY #: 4816690.9

YEAR: 1952

= 500'

N

EDR



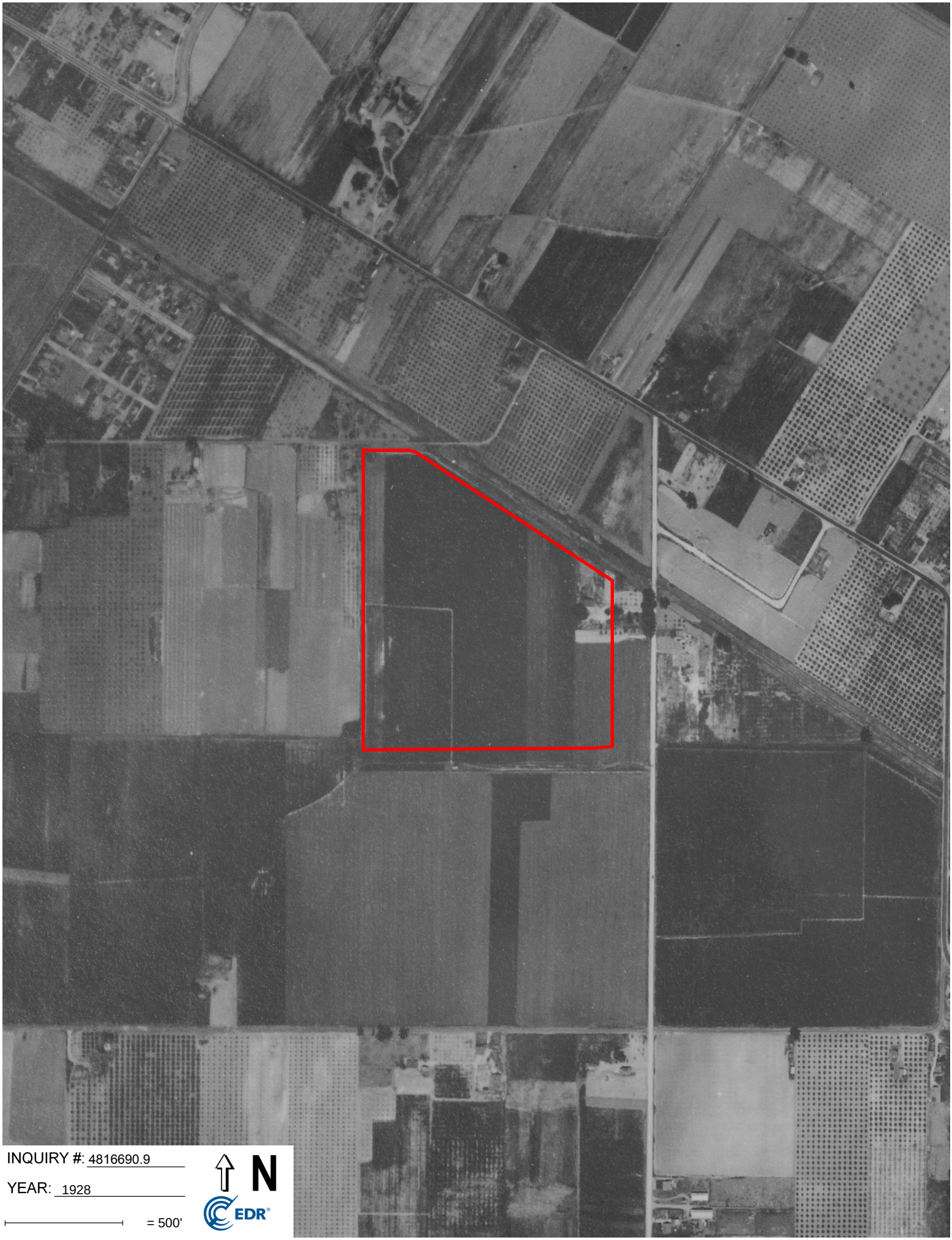
INQUIRY #: 4816690.9

YEAR: 1938

= 500'

N

EDR



INQUIRY #: 4816690.9

YEAR: 1928

= 500'

N

EDR

9300, 9350 and 9400 Hall Road
9301, 9333 and 9399 Stewart & Gray Road
Downey, CA 90241

Inquiry Number: 4816690.5
January 03, 2017

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report 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 Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☑	Cole Information Services
2008	☑	☑	Cole Information Services
2003	☑	☑	Cole Information Services
1999	☑	☑	Cole Information Services
1995	☑	☑	Cole Information Services
1992	☑	☑	Cole Information Services
1985	☑	☑	Haines Criss-Cross Directory
1980	☑	☑	Haines Criss-Cross Directory
1975	☑	☑	Haines Criss-Cross Directory
1971	☑	☑	Haines Criss-Cross Directory

RECORD SOURCES

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

FINDINGS

TARGET PROPERTY STREET

9301, 9333 and 9399 Stewart & Gray Road
Downey, CA 90241

Year	*CD Image*	*Source*

STEWART AND GRAY RD

2013	pg A2	Cole Information Services
2008	pg A25	Cole Information Services
2003	pg A48	Cole Information Services
1999	pg A68	Cole Information Services
1995	pg A91	Cole Information Services
1985	pg A98	Haines Criss-Cross Directory
1985	pg A99	Haines Criss-Cross Directory
1980	pg A101	Haines Criss-Cross Directory
1975	pg A103	Haines Criss-Cross Directory
1975	pg A104	Haines Criss-Cross Directory
1971	pg A106	Haines Criss-Cross Directory

STEWART GRAY RD E

1992	pg A94	Cole Information Services

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
HALL RD		
2013	pg. A1	Cole Information Services
2008	pg. A24	Cole Information Services
2003	pg. A47	Cole Information Services
1999	pg. A67	Cole Information Services
1995	pg. A90	Cole Information Services
1992	pg. A93	Cole Information Services
1985	pg. A96	Haines Criss-Cross Directory
1985	pg. A97	Haines Criss-Cross Directory
1980	pg. A100	Haines Criss-Cross Directory
1975	pg. A102	Haines Criss-Cross Directory
1971	pg. A105	Haines Criss-Cross Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	Cole Information Services

HALL RD 2013

9226	LIVE IN FITNESS
	VALUE PAINTING INC
9228	CY COMPUTERS
9234	GOOD TIME BEVERAGES
	REPUBLICNAIL INCORPORATED
9236	24 HOUR 7 DAY EMERGENCY LOCKSMITH
	KPRS CONSTRUCTIN SERVICE
	M CHEMICAL COMPANY INC
9238	BITEBEECOM
	KATA INDUSTRIES
9240	SIGNATURE AUTO CONCEPTS INC
9242	RABBIT AIR
9244	PDC
9246	HI TECH MACHINING
9248	CONCEPT CRAFTS
	CREAVANCE SALES
9250	G & R ELECTRIC INC
9252	COMPTON GLASS INC
	ZEMIC USA INC
9256	INDUSTRIAL SUPPLY E V
9258	MO MAGZ INC
9262	P N CALIFORNIA INC
	THE FASTENING CARE
9268	MEPCO SERVICES
9300	OMNI TEAM INC
9400	MAERSK DISTRIBUTION
	WESTERN PACIFIC PULP & PAPER

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013

7011	CLEARBROOK FARMS
	ROCKVIEW DAIRIES INC
7033	ADRIANNE VALLADARES
	ALBERTO PEREZ
	ANDREW BARBOSA
	APRIL RICO
	ASHLEY MELENDEZ
	BEATRIZ VELASQUEZ
	BENJAMIN GUTIERREZ
	BENJAMIN JACKSON
	BRADFORD LOW
	CARL ZELAMBO
	CECIL REYES
	CELESTE JUAREZ
	CENIA GALINDO
	CHERYL HARRIS
	CHESTER SANDERS
	CHRISTOPHER FRIEDMAN
	CLAUDIA MORENO
	DAVID FELIX
	DOLORES MIRELES
	DUSTIN HERNANDEZ
	EARLENE OTERO
	EULISES GUZMAN
	FRANCISCO GARDEA
	GREG GALVIN
	JAIME CARMONA
	JASON MARTINEZ
	JENNIFER VENEGAS
	JESUS GARCIA
	JIMMY GUERRERO
	JOAN SAUER
	JOSE CORNEJO
	JOSE HOLGUIN
	LONNIE BENSON
	LUZ CARDONA
	LYNDA TORRES
	MARCIN KOSAKOWSKI
	MARIA GUERRA
	MARK FLORES
	MARTHA KAZIMI
	MICHAEL MARROQUIN
	NAWAPOL THONGDONNOI
	OLGA ALVAREZ
	OMAR SAUCEDO
	OSCAR OLIVAS
	PATRICIA GRAJEDA
	RAYMOND LUCERO
	RICHARD ORTIZ
	ROBIN FLOWERS

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7033	ROSA REBOLLAR
	ROSA VARGAS
	SULAINE BERNAL
	VERONICA GUDINO
	VICTOR MONROY
	ZELMIRA VALLINI
7044	DANIEL LARA
7100	ALVARO GUARDADO
7102	OCCUPANT UNKNOWN
7106	EMANUEL STONE
7108	AMPARO HURTADO
7110	OCCUPANT UNKNOWN
7112	ROBERT TURNER
7117	ALESSANDRO BEVILACQUA
	ALMA VELASCO
	ALVIN HAVESON
	ANDRE HARRISON
	ANTHONY TOVAR
	ANTOINETTE ALVAREZ
	APRIL LINO
	ARTURO GONZALEZ
	BAHRAM YALZADEH
	CECIL GONZALES
	CHRISTOPHER SCOTT
	CRAIG FISHER
	DANIEL DELAROSA
	DARNELL BANKS
	DAVID VILLEGAS
	DIANA PIMENTEL
	DONALD ROMERO
	ELIRETH MORALES
	FRANCISCO RODRIGUEZ
	GERALD TALLEY
	GINNEAN PEREZ
	GRAYSTONE MANOR APARTMENTS
	GRICELDA PONCE
	GUADALUPE OREA
	HERLINDA SIR
	IRENE FISHER
	J PATRICIA
	JAIME BARILLAS
	JAMES ESCALZO
	JANEICE SLOAN
	JASON AHERN
	JESUS CAMACHO
	JOHN DEANDA
	KATRINA JUAREZ
	KEMMERER INSURANCE
	L A CARSERVICE INC
	LEWIN TOBAN

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7117	MARY SISK
	MICHAEL LUCERO-ORTIZ
	NANCY GABRIEL
	RAFAEL MURRO
	ROSINA LOMBARDI
	ROY REEVES
	S SHELL
	SAMUEL CHUN
	SANDRA TOVAR
	SILVIA HERNANDEZ
	STEVE ZELAYA
	STEVEN CONTRERAS
	SUSAN CHHAN
	TERRENCE SMITH
	WILLIAM MEHL
	YURIK ZAKARYAN
7118	OCCUPANT UNKNOWN
7120	JORGE BERCIAN
	MARIA GAETA
7122	JORGE SOTO
7124	OSCAR BARRIENTOS
7134	WAYNE GREENBERG
7136	PATRICIA DELUCA
7137	ANEL GALLARDO
	CLARO NUNEZ
	DEJUAN JOHNSON
	DOWNEY WEST GARDEN APARTMENTS
	ESTHER SALAZAR
	GALINDO JAVIER
	GINO SILVA
	JASON ROBERTS
	JOEL NIEDJELSKI
	JOSE AVILA
	LAVON ROBERTS
	LETICIA RODRIGUEZ
	LOUIS PAVON
	LUCIA SAMBRANO
	MARCELA LEDESMA
	MICHELLE PEREZ
	MIGUEL ALVAREZ
	PATRICK MANOOGIAN
	PEDRO AMBRIZ
	RICARDO SALAS
	RICHARD GARCIA
	RUTH RUIZ
7138	DORA ESCALANTE
7140	LOUIS ARIA
7142	A REITZEL
7144	BERNICE PRUITT
7146	GUSTAVO CORDERO

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7147	ADALBERTO QUESADA
	ADRIANA CUEVAS
	ALEJANDRO TORRES
	ALMA CEJA
	EDNA JUAREZ
	ERNEST RHODES
	HECTOR QUINTERO
	JORGE OCHOA
	JOSE MONTANO
	JUAN HERNANDEZ
	JUDITH MACIAS
	LEOPOLD ROBINSON
	MARGARITA SIGUENZA
	MONICA SANDOVAL
	PETE ROSAS
	RICK HAZEL
	ROBERT DERRICKSON
	SCOTT KEARSE
	VALERIE TREJO
	ZOBEIDA CHAVEZ
7150	CAROL GRAVIUS
	MAGDALENA SOLIS
	MARCOS GONZALEZ
	MIRIAM MENDOZA
7152	OLGA REVELO
7154	DENNIS ALVAREZ
	ROBIN RETTIG
7156	MIREYA CASTRO
7157	ALBERT MARTINEZ
	ALFRED HIGA
	ALICIA BELTRAN
	ARTHUR BROWN
	H MOORE
	JANOLA HALE
	JOSE CECENA
	JUAN HERRERA
	L KEARSE
	LORINE PARKS
	MARIA JAQUEZ
	MARIE BENNETT
	MARTA SARRIA
	MELISSA FLETCHER
	NICOLA LAURENZA
	PAUL RAKOCZY
	RAYMOND EMIRO
	STEVEN DRAPER
	TED MATTHIES
	TONY MEZERAANI
	VIVIANA SPIRU
7158	BLANCA FUENTES

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7158	CARL JONES
7160	OCCUPANT UNKNOWN
7162	TRAVIS MULLEN
7164	GEORGE MULLEN
7167	DAMU FREEMAN
7168	DENNIS PASILLAS
7207	ANDREW TITTELFITZ
	ANTHONY LOPEZ
	ANTONIO LOPEZ
	CARLOS ESCALANTE
	CHARLES LILLEY
	DEBRA HERNANDEZ
	EDITH JARA
	ELSA URDIALES
	GREGORY LUCKETT
	JASON CIERPISZEWSKI
	JOSPEPH KANE
	LILIA ZARAGOZA
	M SUCEDA
	NUBIA SAUCEDA
	PAULINE DRAKE
	WILLIAM BLUSH
7208	DELIA ZATLOUKAL
7229	C PLASCENDY
7275	STEVEN DRULIS
7302	APRIL FORD
7308	HUSSEIN ALKHAFAJE
7314	CODY THOREN
7320	OCCUPANT UNKNOWN
7326	ALVARO PRECIADO
	WILLIAM RITCHIE
7332	BERTHA HERMOSILLO
	OSCAR RUBIO
7336	HANY SHEHATA
	ROLANDO ROMERO
7338	JUANA ALVAREZ
	MIHAI CIOCEA
	OCCUPANT UNKNOWN
7340	CAROLYN MILLER
	DEREK VAUGHN
	OCCUPANT UNKNOWN
7344	MARIO PERSICO
	MATT KLUTE
7354	DONNAS DRY CLEANING & LAUNDRY
7356	GLEN THE
7360	VICTORIAS NAILS
7362	JOES BARBER STYLIST
7364	G & L HEALTH WATER
7368	PONCES BAKERY
7375	SUNLAND DONUTS

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7377	DEAN OF VIDEO
7380	TACOS LA CABANITA
7389	BEAUTY PARADISE
	UNIQUE FLORAL DESIGN SHOPPE
7391	COCOON GIFTS FOR THE MIND & HEART
7399	WEST DOWNEY LITTLE LEAGUE
7400	7ELEVEN
7410	GLADYS BRYANT
	JAVIER LUNA
	MARK HAYES
	RUSSELL LUNSFORD
	SHANNON LUND
7413	IRA WHITE
	LETICIA AGUILLEN
	MATILDA CENTENO
7415	KANANI AUWAE
	TRACEE SMITH
7416	LUCINDA SMITH
	MIREYA MENDOZA
	OMAR CERREL
7424	LANI MORRIS
	RICHARD ARCE
7425	ALFONSO OLIVAN
	ALMA FERNANDEZ
	APRIL BEMISTER
	DANNYA MEZA
	EDGAR BORJA
	LINDA ADKINS
	NIKO MARTILLO
	STELLA OCEGUEDA
7426	LILIANA HERENAS
7430	EDUARDO MIRAZO
	JENNIFER KO
	KARL GERSTENACKER
	L ROGERS
	TYRONE RODGERS
7435	E HARVEY
	JORGE GUTIERREZ
	LORENZO AMBRIZ
7436	CASONDRA WEAVER
	GREG CONTE
	KATHLEEN LEWIS
	RAYMOND ARCE
	SILAS WILLIS
7442	CHARLENE ROCHE
7481	ELYSE MIRAYA
7500	ERICA SANCHEZ
	LINDA LEROY
	RAUL ROBLES
	WENDY VALLE

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7509	XINIA HOLLMAN
7512	ROSA ALVARADO
	VICENTE FIGUEROA
7518	ANA VELASQUEZ
	MATTHEW FOUNTAIN
	OMER SOZEN
7524	JANICE LEARNED
	RICHARD MATA
	WILLIAM WOHLFORD
7528	ADALBERTO NAVARRO
	ANDREW WRITER
	R SEPULVEDA
7546	ALEXANDER LEPE
	BRANDON KIM
	BRITTANY CYCHOSZ
	CHARLES GERDING
	CHRISTOPHER PEARSON
	DENISE GERDING
	DIANE DOLMAN
	DONNA MARTIN
	DONNA ZIEGLER
	ELIZABETH ROMERO
	ELIZABETH ROYCE
	JAMIROS ASDF
	JOMARI SARMIENTO
	JUAN GOMEZ
	JULIO MARTINEZ
	LAURA GONZALEZ
	LAVERNE HOCKETT
	MARIA PACHECO
	MARILYNN MURRAY
	MARIO AMAYA
	MARY WIELB
	MIGUEL COSME
	MOZON ALEJANDRO
	MYRA FIGUEROA
	NORD STAR APARTMENTS
	RANDY WINNEY
	RICHARD SWOPE
	SAHILY VAZQUEZ
	TRINIDAD LOPEZ
	WENDY ESCOBAR
7602	JONG PARK
	MARIA BRAVO
	YONG CHOI
7604	JOSE LLIZO
	S & G ESTATES
	TAMMY KIM
7612	CARLOS SALAZAR
7618	JOSE FLORES

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7624	DIAZ PENA
7632	RAUL GARCIA
7640	OPAL SHAFFER
7644	JOHN SY-SIONG
7646	VENKATA TADI
7648	SAM NOVICK
7650	ARMANDO ZAVALA
7652	RODRIGO GAMINO
7654	MARVIN HERNANDEZ
7714	JOANN WILLIAMS
	MI KYOUNG
	STEPHEN KANG
7716	MOON JEON
	RAUL RUVALCABA
7718	BRENT CANNADY
	BRIAN CHAMBERS
	ROGER MILLER
7722	LENNIE IM
	VICTOR OH
7724	OCCUPANT UNKNOWN
7730	HAILES SOTO
7802	CLAUDIA RIVERA
7803	ABELINO BAUTISTA
7810	CAROL ROMERO
	EDITH GUTIERREZ
	GABRIEL AGUAYO
	JOHNNY LOPEZ
	LUIS CHAPMAN
	MARIO HERRERA
7813	LEUTERIO MACAPAGAL
7815	TED THIA
7817	KONTHEA KANG
7818	DAVID GUIZADO
	EDUARDO VALLEJO
	EMAD ABDELAAL
	ENRIQUE MARTINEZ
	JANET BLOUNT
	JOSE RAMIREZ
	JUANITA TREVINO
	MITCHELL DAVIS
	PETER MELIKA
	ROBERT VANLOON
	WILLIAMS WELTER
7819	MASOUD MIKHAIL
7821	KARLA FARIAS
7823	JENNY FIGUEROA
7829	ADRIANA VALADEZ
	DANIEL ENCINA
	DELIA QUINTERO
	ERICKA RAMIREZ

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7829	HANH LEKIM
	JOONG HUH
	TIMOTHY MAGRANN
	VICTOR ESTRELLA
	VIOLETA HIDALGO
7830	ALEC BLAIR
	ALEXANDRA JIMENEZ
	CONCEPSION CORRAL
	GRISELDA MEDINA
	GUSTAVO CORTEZ
	JOSE AGUILAR
	SHELLI STEPHENSON
	WALTER FERNANDEZ
7836	BENEDIC DANUT
	DENISE HARRIS
	ISMAEL DELPINO
	MARIA GUTIERREZ
	MARIA MARTINEZ
	MICHAEL COZORT
	ROBERT RENTERIA
	STEPHANIE MUNOZ
	TYESHA LOVELACE
	VICTORIA VELIZ
	VIRGINIA GONZALEZ
7841	DAVID FRASQUILLO
	ELSA ROMERO
	JULIO VELASQUEZ
	MARIO PEREZ
	MIKE RODRIGUEZ
	RAFAEL MARTINEZ
	ROBERT MENDEZ
	SUNG SHIN
7845	ANA SALAZAR
	ANDREW ROSALES
	ARIAN PEREZ
	DANIEL CASTRO
	DEE LOPEZ
	DONALD JOHNSON
	ELI GUEDJ
	HFH DOWNEY COURT LLC
	HORTEN CASTILLO
	ISMAEL MARTINEZ
	JOSEPH JASSO
	JOSUNE AGUIRRE
	JULEE ROSSMAN
	JULIE DUGAN
	KERRY ELLISON
	MARTIN THARP
	MELY MENJIVAR
	OSVALDO APARICIO

STEWART AND GRAY RD 2013 (Cont'd)

7845	SALVADOR MIRANDA
	SARA BAZAN
	STEVEN LUEVANO
	THARP DELCAMPO
	THO NGUYEN
	TIANA WILLIAMS
7846	OCCUPANT UNKNOWN
	STEPHANIE MARSANO
7848	OCCUPANT UNKNOWN
7850	WILLY RODRIGUEZ
7860	BEN HUSBANDS
	D JANG
	GWYNDOLYN COLLINS
	HARRISON PARK
	JACK HUYSMAN
	JOSE CAMPO
	LYNN SEFFER
	MICHAEL TRACEY
	RACHEL DEWITT
	SUZANA CENICEROS
7861	CHRISTIAN POMPA
	DIANA ACOSTA
	FANNY CESNEROS
	JAIME YANEZ
	JOSE NAVARRO
	JUAN MEDINA
	LAJUENE MUSTIN
	PAT SLOAN
	RICHARD RODRIGUEZ
	TIANA WILLIAMS
	VANESSA YANEZ
7862	PAUL KIM
7864	OCCUPANT UNKNOWN
7866	KIRK SEO
7868	MINDY LEE
7870	MARGARITA MONGE
7871	ALBERT BULNES
	CLAUDIA DOZAL
	EMMA GONZALEZ
	JOHANNA CARDENAS
	LUIS POSADA
	MILVERDA EDMOND
	NIDIA ALMENDAREZ
	ROSA BARROS
	SILVIA FUNES
	VICTORIA FLORES
7872	IN KIM
7874	EDGARDO VALDEZ
7876	SANDRA ANDRADE
	SEWON KIM

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

7878	GREGORY OROZCO
7880	BRIDGETT RODGERS
7900	ALFREDO ARMENTA
7901	ADEL GIRGIS
	ANTELITA KYLE
	CARLOS CHAVEZ
	DAVID NAVARRO
	ELIZABERTH FLOREZ
	GANNIGA PEUMSANG
	GLORIA DEWITT
	HILDA GONZALEZ
	JAMES ARELLANO
	OSWALDO YOCUPICIO
	VIRGINIA MAYA
7906	LANI GUZMAN
7909	ALFREDO ROQUE
	FRANCISCO AQUILA
	GILBERT QUESADA
	HJORGE ANCHETTA
	HYE KANG
	IVORY GUESS
	J SANCHEZ
	JOEL CARLUCCI
	LESLIE MARTINEZ
	NELSON VILLALOBOS
	THALIA PHILLIPS
	WILLIAM BAKER
7910	GLORIA OTERO
7912	CARLOS CASANOVA
	CAROLYN CARBAJAL
	HECTOR VIVANCO
	MARIA SERRANO
	SOLEDAD TORRES
7919	ARCADIO AGUIRRE
	EDDY MORALES
	KEVIN LARA
	KRISTOFER OCHOA
	PATRICIA VENCEBI
	PRATUM PONGPHUEK
	VINCENT GONZALES
7922	ANDREW GARCIA
	BRITNEY SPEARS
	CARLEY PETERSON
	EDUARDO CARDENAS
	FELIPE CONTRERAS
	GILBERT BARAJAS
	HUGO ORELLANA
	JOHN PUENTES
	JOSE CHAVEZ
	JOSEPH ZARAGOZA

STEWART AND GRAY RD 2013 (Cont'd)

7922	KRYSTAL CORONA
	MANUEL SALCIDO
	MARIA FLORES
	MISTER ROBINSON
	RICARDO CABO
	ROBERT LUCAS
	ROGER VEGA
	RYAN HASS
7924	TROY GALEANA
7925	CARMEN ARIAS
	EMILIO RIOS
	FABIOLA PADILLA
	JASWINDER SINGH
	JORGE HUERTA
	JUANA SALGADO
	LACOYA ROBERTS
	MIRIAM GONZALEZ
	MONICA RODRIGUEZ
	RACHID FALCOU
	SANDRA SANCHEZ
7926	JOSE OROZCO
7928	OCCUPANT UNKNOWN
7929	ALFRED VELASQUEZ
	CHRISTINA MANN
	ERICA RUIZ
	IRMA GUERRERO
	JOSE YZQUIERDO
	LOPEZ ARRIETA
	TINA GALVEZ
	YANINA SANDOVAL
	YOUSEFALI ABKHREH
7932	LUIS VALDEZ
7934	ELIZABETH VILLALOBOS
7936	RICHARD JARA
7938	DOLORES AGUILAR
7940	CANDACE MARADIAGA
	JESSICA VALENCIA
	PATRICIA LOZA
	SELENE OCHOA
	WILENE SCHLENER
7941	ARDRA SCHELLO
	CANDIDO CUETO
	DAVID ABNEY
	JOSUE MARCUS
	JUAN TORRES
	LAURA MARTINEZ
	THAER EID
7944	ANISSA MENDEZ
	ARMANDO BARRAGAN
	GABRIELA MARTINEZ

STEWART AND GRAY RD 2013 (Cont'd)

7944	JESSICA PARTIDA
	JORGE RODRIGUEZ
	JUDY PADILLA
	PATRICK ZSCHOCHE
	ROLAND PEREZ
	SYLVIA GARCIA
	SYLVIA MELENDEZ
7947	GERARDO TINOCO
7949	ZENG NU
7951	GUSTAVO OROZCO
	LANDMARK FREIGHT
	SHIN KIM
7952	ANAHIS SANCHEZ
	ANGELIQUE FASSETT
	DINO TUMBUAN
	LISA PADILLA
	MIGUEL GONZALEZ
	PEGGY FROST
	ROBERTO MEDINA
7953	ALEX KIM
7955	OCCUPANT UNKNOWN
7957	CHARMAINE WILLIAMS
7959	KEY HAN
7961	JHON KIM
7963	ALEXA TARICHE
7965	RAFAEL YERA
7967	PAUL TULLY
7969	SHARKY IKEDA
7971	KI WOO
7973	TERAYLAN HOLLINGSWORTH
7975	ANGELICA ANGUIANO
7977	OCCUPANT UNKNOWN
8011	HAIR ESSENTIALS
8015	ABC DONUTS
8018	SOTO FAMILY DENITRY
8019	PACIFIC BURGERS
8020	STAR ONE HOUR CLEANERS
8022	LIVING WATER
8024	GOOD DEALS
8028	CAPRI SHOE REPAIR
8029	ANNA MENDEZ
	BENJAMIN SMITH
	IMELDA CAMPOS
	JAMES DOSTALEK
	LILIAN CABALLERO
	SANDRA RAMOS
	SANTOS PEREZ
8030	QUALITY INSURANCE AGENCY
8032	DAVES BARBER SHOP
8034	FASCINATION HAIR DESIGN

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

8037	DONALD BEAUDRI
	GARY GIBBS
	IRIS GARCIA
	JOEY THOMPSON
	LEONEL LEYVA
	MARIA POSCANO
8040	BRIGETTE STEINER
	GRACE BURTON
	LEO CAILLAS
	MARCO GARCIA
	RANDY FINNELL
8101	ANGEL TORRES
	GUSTABO HURTADO
	IMELDA MARQUEZ
	JUAN MENDOZA
	MARIA VAZQUEZ
	QUADALUPE DIAZ
	RITA DUONG
	YEONG KIM
8104	HECTOR CASTILLO
8111	EDWIN SOSA
	LORETTA BARDEN
	SAM EZELL
	SUSAN GARCIA
	SUZANNE MAYBERRY
	TIFFANY PARSLEY
8112	AGUSTIN CASTELLANOS
	LOUIS GARD
	MAX LOERA
	MICHAEL BRZECZEK
	MICHAEL GRAINGER
	MIGUEL ARELLANO
8115	ALFONSO PEREZ
	ARACELY HERRERA
	CHRISTIAN AGUILERA
	EDUARDO RODRIGUES
	EVELYN ORTIZ
	FAUSTO FLORES
	FERNANDO CHANJAN
	FREDERICK FELIX
	HILLARY HAYLOCK
	ISMAEL VALDEZ
	JUANA MACHADO
	KARINA ENCISO
	KRYSTAL PADILLA
	LOUIE SANTOYO
	MARIO ATENOGENES
	MARTHA VALLEDALLES
8116	ALFREDO GUTIERREZ
	AMBER WELLS

STEWART AND GRAY RD 2013 (Cont'd)

8116	GILBERT MAJANO
	JOANNA BENITEZ
	JUAN BECERRA
	MASAKO CHAI
	MICHAEL HALSEY
	MICHAEL VACA
	MITCHELL KLEIN
	RAY GOETZ
8124	ALMA MARTIN
	BRENDA CAMPBELL
	CRAIG BROWN
	GEORGE OVALLE
	JOSEPH POWELL
	RAMIRO ALVARADO
8127	ABEL ACOSTA
	MARIA BARRAGAN
	MARTIN GALLEGOS
	OSCAR RODRIGUEZ
	PATRICIA VASQUEZ
	RALPH RAMIREZ
	REBECA GUTIERREZ
8130	GRACIELA FERNANDEZ
	MELISSA DIVAS
	RICHARD QUINONES
	ROY BAGLEY
	STEVE WAGNER
	WALTER BONILLA
8131	ANN LOUIE
8135	BOLESLAW MATUSZEWICZ
	DAVIS YOUNG
	JAMES MELTON
	MARIANA VELASCO
	RAMON SANCHEZ
8136	ALEJANDRO ARCHILA
	EDUARDO CARDENAS
	HELEN WOODS
	PAUL APOLLONIO
	VANESSA CASTRO-GIRON
8141	CELESTE PASILLAS
	DONALD COX
	FRANCISCO BERGERA
	FRANCISCO VERGARA
	HEATHER SPARLIN
	JESSICA AYALA
	KEN MONTERROSA
	KEVIN REA
	LISA DEGER
	MANUEL APARICIO
	MARIA ESQUEDA
	MAUREEN HEIDENREICH

STEWART AND GRAY RD 2013 (Cont'd)

8141	MITCH CARSON
	NORA SALMERON
	ROBERT CASEY
	RODOLFO JUAREZ
	ROLIO PEREZ
	VILMA RIVERA
	ZOILALUZ LOPEZ
8202	PEDRO DIAZ
8207	A ORTEGA
	DANIEL BANEGAS
	DANIEL VIRGEN
	DAYTON PERKINS
	DESIREE AVILA
	DIANE HOSPEDALES
	JUAN GALAVIZ
	KRISTINA CHAVEZ
	LORENZO PEREZ
	MARTIN DAVENPORT
	MAYRA OJEDA
	NORMANDY APARTMENTS
	RON HARP
8208	OCCUPANT UNKNOWN
8213	VICTOR MACEDO
8214	GUILLERMO TORRES
8217	FELIPE BELTRAN
8224	ERIC ESPINOZA
8227	CONSUELO TALAVERA
8230	OCCUPANT UNKNOWN
8235	MARIA PADILLA
	MICHAEL LIU
	ROSA SCHOENBERG
	SHERRI GORDON
	STEVEN RAMOS
8236	CARMEN STROUD
8237	ANDREA GORDON
	JOHN KIM
8239	GENE SCHOENBERG
	HYE CHUNG
	NAE SHIN
	PAUL KIM
8242	HERBERT WELCH
8243	DAVE NAZAROFF
8248	ARMANDO VILLARREAL
8249	OCCUPANT UNKNOWN
8254	JANET TACKETT
8255	JAVIER RODRIGUEZ
8258	RICHARD DELGADO
8259	MICHAEL CHONG
8264	HERON GUZMAN
8267	DE LIM

STEWART AND GRAY RD 2013 (Cont'd)

8270	LORRAINE DIAZ
8276	WILSON TORRES
8300	CENTURY 21
8304	DACOM GENERAL INSURANCE
	MOYER DENNIS
8307	DANIEL SANCHEZ
8308	DOWNEY FLOWER
8310	QUICK TIME PIZZA
8320	FOUNTAIN SQUARE LIQUOR
8321	OCCUPANT UNKNOWN
8325	MARIA HURTADO
8326	PANDA BELL CLEANERS
8328	ADAN & EVA BEAUTY CENTER
	WOODS DENNIS
8329	MIGUEL MARTINEZ
8330	SIZZLING THAI KITCHEN
8331	SANDRA MARTINEZ
8333	CARL WILSON
8334	B LOPEZ
8335	OCCUPANT UNKNOWN
8336	MARTHA CRUZ
8338	CHITRAPORN SUTHIPRASERT
	DANNY PUNGDUMRI
8340	OCCUPANT UNKNOWN
8342	MIGUEL ZUNIGA
8345	CESAR GUTIERREZ
8347	ANEL ANGON
8348	CARLOS BENITEZ
	JUAN MOREIRA
	MANUEL CESPEDES
	MARTIN GONZALEZ
	OCCUPANT UNKNOWN
8349	OCCUPANT UNKNOWN
8350	BECKY MARQUEZ
	MARCO LEON
	ROSA VALDOVINOS
	SARBIA GARCIANO
8351	OCCUPANT UNKNOWN
8400	EMMA WALKER
	MARILYN MCFEE
8402	FRANCISCO ALARCON
8403	DAGOBERTO GIRON
8405	MARIA MALDONADO
8406	MELISSA MEAZZO
8408	OCCUPANT UNKNOWN
8409	DAMOND BRYANT
8410	GREG MACIAS
8412	TINA FLORES
8413	OCCUPANT UNKNOWN
8415	OCCUPANT UNKNOWN

STEWART AND GRAY RD 2013 (Cont'd)

8416	OCCUPANT UNKNOWN
8417	EFRAIM FERRER
8418	SARAH SHEAD
8419	FRANCISCA GUZMAN
8420	SALVADOR VEGA
8422	GEORGE RODRIGUEZ
8423	JOSE MANTECON
8424	OCCUPANT UNKNOWN
8425	OCCUPANT UNKNOWN
8426	RENE OJEDA
8427	S DELGADO
8432	OCCUPANT UNKNOWN
8434	JORGE LOPEZ
8436	ADRIAN VEGA
	JAMES HUGHES
8437	LORENA ROSALES
	LUIS SANCHEZ
	RICARDO CEA
8438	CYNTHIA JACOBS
8439	JERRED BERG
8440	DANA PITT
8442	OCCUPANT UNKNOWN
8444	RYAN SEBASTIAN
8445	PAUL SALAZAR
8446	MARIELENA RUBIO
	OCCUPANT UNKNOWN
8450	ARTURO VALENZUELA
8501	CRYSTHEL RAMIREZ
	JOSE HERNANDEZ
	SALVADOR VAZQUEZ
8502	BERNARDO ENCINAS
8505	ANGELICA PEREZ
8506	OCCUPANT UNKNOWN
8508	GERALD KLINE
8510	JOSEPH JOHNSON
8512	ROSIE SANCHEZ
8513	CARRIE ORTIZ
	NINA YOUNG
8514	EDGAR PICOS
8516	ANA FERREIRA-LOPEZ
	JANELL BARTKUS
8517	OCCUPANT UNKNOWN
8518	JENNIFER LUCERO
8520	VICTOR VASQUEZ
8521	EILEEN ELLIS
8522	KATERINE MARIN
8524	MARCOS PEREZ
	SANDRA REINA
8525	CORA GATDULA
8526	DANIEL CLARK

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2013 (Cont'd)

8526	JAMES DEMARS
	JOSE LOZADA
	OCCUPANT UNKNOWN
8528	HENRY PEREZ
8532	ALEJANDRA ALOMSO
	DAVID SEPULVEDA
	PABLO ROSITAS
	RAMONA ESQUIVEL
	RONALD ALBERTSEN
8533	OCCUPANT UNKNOWN
8535	BENJAMIN GONZALES
8536	OCCUPANT UNKNOWN
	ROBERT DUNCAN
8538	CLAUDIA CASTILLO
8539	JEFF SIMMONS
8540	LEANA BECK
	PATRICIA GALLAGHER
8542	JUANA CARDIEL
	REGINA TEUTLA
8546	GLADYS WEYANT
8550	CAROLINA RODRIGUEZ
8551	WILLIAM LEW
8552	MARIO FLORES
8558	ELIZABETH ESQIVEL
8560	ROBERTO CAVAZOS
8600	JOSE AGUIRRE
8605	JOSE CARRILLO
8606	JOSE GOMEZ
8609	RAFAEL SANDOVAL
8612	OCCUPANT UNKNOWN
8615	CRISTINA DIAZ
8621	DAVID PAYAN
8622	MARCOS MEJIA
8627	JUAN PRECIADO
8628	IVAN LOPEZ
8631	CLAUDIA AVILA
8632	BRIGIDA ALEJO
8637	JAY ALEXANDRE
8638	HUGO VILLEGAS
8643	ARACELI MARTINEZ
8644	KIMBERLY CASTRO
8647	AARON DEGEN
8650	LEONEL RAMOS
8651	OCCUPANT UNKNOWN
8654	GUILLERMINA DUARTE
8657	VORAK LY
8660	OCCUPANT UNKNOWN
8663	MARIA PADILLA
8702	JUAN DELIRA
8703	JOSE SANCHEZ

STEWART AND GRAY RD 2013 (Cont'd)

8706 GABRIEL VAZQUEZ
8707 BERTHA VALENZUELA
8709 JOSE HEREDIA
OCCUPANT UNKNOWN
8710 ISMAEL GARCIA
8712 MARIA COREA
8713 FRANK HERNANDEZ
LARRY CARR
RICARDO MENDEZ
8716 SANDRA PAZ
8718 MIGUEL RODRIGUEZ
8719 MARTHA AGUIRRE
8721 JUDITH SEGURA
OCCUPANT UNKNOWN
8722 ELVIRA CALDERON
8723 RICHARD NAVARRETE
SOLANGE FERNANDEZ
8724 ELIZABETH WEBSTER
8725 JACOB SEGOUIA
8726 OSCAR RODRIGUEZ
8729 OCCUPANT UNKNOWN
8730 PATARAPOL SUTHIPRASERT
8731 OCCUPANT UNKNOWN
8732 BERTHA MILLAN
8733 CARLOS DUARTE
HUGO JAUREGUI
JUAN RUIZ
MYRNA GUTIERREZ
ROBERTO RAMOS
8735 CHRISTOPHER ENRIQUEZ
OCCUPANT UNKNOWN
8736 CARLOS MORENO
8738 OCCUPANT UNKNOWN
8739 ANA ORNELAS
FAVIOLA VACA-CASTRO
MIKE ARZOLA
RICARDO MEDRANO
9119 OCCUPANT UNKNOWN
9143 ION BALARIE
9148 JUAN BUSTAMANTE
JUN GUTIERREZ
MARIA OLVERA
VICTOR VALDEZ
9151 ATEF ABDELMALAK
9154 BOYD DECHAUSSE
CARL DELPH
JAVIER PEREA
MARVINE CLOMAN
SUSANA AVALOS
9157 LORETTA FEDERICO

STEWART AND GRAY RD 2013 (Cont'd)

9160	DANNETTE BEAUDRY
	DOREENDA AIKINS
	ELIAS BALAT
	ERIC MOLLE
	MITCHELL TUCKER
	VILLA DOWNEY
9163	JOSE CERDA
9164	ANA SOLORZANO
	HELEN DOMINGUEZ
	LESIE TYLER
	MARGARITA CARLIN
	NICOLE WISMER
	PETRA ORNELAS
	SAM WILLIAMS
	YANNINI ALVARADO
9170	ALICIA GALVAN
	ALMA SYMS
	ANTHONY WHITE
	BRANDICE POWNSEND
	CONSTANTIN ROSENBAUER
	ELIZABETH TEXIS
	ELVIA CERANO
	ESTELLA BRAND
	KARINA SARAVIA
	KHABIR EL-SHALED
	KYMBERLY HALL
	PHILLIP RALAYAD
9202	JUANA LOPEZ
	LESLIE TYLER
	SCOTT HILTON
9207	RUDY MEYER
9208	ANA BLANCO
	CYNTHIA GUZMAN
	FRANCES RODRIGUEZ
	IRMA RAMIREZ
	JESUS GALINDO
	JORGE ROSANO
	SARA HERNANDEZ
9211	DUSTIN MOHASCI
9212	BORIS PADILLA
	EVELIA DURAN
	MICHELLE RAMOS
	NICOLE LEE
	SERENA ALDAVA
	YAFUHIKO YAHAMARA
9216	ANABERTHA BENAVIDES
	ANDRES CELIS
	MARY GOMEZ
9217	HAROLD NELSON
9220	CARMEN ORTIZ

STEWART AND GRAY RD 2013 (Cont'd)

9220	CLAUDIA FIGUEROA
	DOLORES MENDOZA
	ERIC GATES
	JORGE ARROYO
9228	CARMEN VASQUEZ
	MARIA PALE
	MARISELA LOPEZ
	ORTEGA SANCHEZ
	ROSEMARIE ESCALANTE
9229	PHILIP FUETTE
	SILVANNETTE AGRAMONTE
	STEVEN MURO
9232	TIMOTHY GRAVES
9251	AL BACA
9252	CITY OF DOWNEY
9253	MICHAEL CRANEY
9255	JOSE LOPEZ
	OCCUPANT UNKNOWN
9257	CLAUDIA WATKINS
9301	J F DUNCAN DURAY INDUSTRIES INC
9333	ACCESS INGREDIENTS LLC
	WESTERN PACIFIC PULP & PAPER
9355	HYDROQUIP PUMP
9401	88 LOGISTICS INC
	MJO STAFFING
9408	LEADWAY PLASTICS INC
9426	HARTWICK COMBUSTION TECHNOLOGY
9505	RELIABLE POWDER COATING
9525	SR MAINTENANCE & MGMT SERVICES
	WALLYS FENCE
9540	GANN PRODUCT COMPANY

Target Street	Cross Street	Source
-	✓	Cole Information Services

HALL RD 2008

9300	OMNI TEMP REFRIGERATION
	OMNITEAM INC
	U S TRAFFIC CORP
	WESFAC INC
9350	WESTERN PACIFIC PULP & PAPER
9400	KELLY SERVICES

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008

7011	B & D DISTRIBUTORS
	CLEARBROOK FARMS INC
	ROCKVIEW DAIRIES INC
7024	LANORE SUTTON
7033	ADRIANNE VALLADARES
	ARMANDO GARCIA
	BEATRIZ VELASQUEZ
	BENJAMIN GUTIERREZ
	BENJAMIN JACKSON
	CARL ZELAMBO
	CENIA GALINDO
	CENIAS JEWELRY & GIFTS
	CLIFFORD KENNEDY
	DIANE MANNING
	DOROTHY PARIZEK
	DUSTIN HERNANDEZ
	EARLENE OTERO
	ENRIQUE PEREZ
	ENRIQUE RAMIREZ
	FILEMON DIAZ
	FILEMON SANCHEZ
	FRANCISCO CANCEL
	FRANK MARTINEZ
	GABRIEL ANDRADE
	GALALELDIN GADO
	JAIME CARMONA
	JAMES HARRIS
	JOAN SAUER
	JOHN BURTON
	JORGE OLAGUE
	JOSE HOLGUIN
	JOSE LEON
	JUAN NUNEZ
	LUZ CARDONA
	MARIA CARRILLO
	MARIA PORTILLO
	MARTIN LONGORIA
	MARYANI GARCIA
	MIGUEL GONZALEZ
	NATALY MIRELES
	OLGA ALVAREZ
	PHILIPP COVINGTON
	RICHARD JOHNSON
	RICHARD ORTIZ
	ROBERT LUNA
	ROBERT VANDERHOEK
	ROBIN FLOWERS
	RONALD SWEENEY
	ROSARIO REBOLLAR
	SHAUNA SANDERS

STEWART AND GRAY RD 2008 (Cont'd)

7033	STEVEN DORN
	TED HOOPER
	TIMOTHY RUDOMETKIN
	TINA REYES
	YESENIA CORTEZ
	ZELMIRA VALLINI
	ZOILA MARROQUIN
7052	DENIS SOLORZANO
7100	OCCUPANT UNKNOWN
7102	ROBERT PSPARZA
7104	SHIRLEY BARNES
7108	JOSE SOTO
7112	ROBERT TURNER
7114	LYNDA THORN
7116	TAMMI OWENS
7117	AGUILAR ARACELI
	ALFREDA BARRY
	ALVIN HAVESON
	ANA ALDANA
	ANA BEVILACQUA
	ARMANDO MARTINEZ
	ARTURO CARRILLO
	ASHANTI PARKER
	BAHRAM YALZADEH
	BARBARA GUTIERREZ
	CEDRIC JOSEPH
	DAVID VILLEGAS
	DENNIS KAISER
	DONALD ROMERO
	EDUARDO ORTIZ
	EDWEEN JACKSON
	FRANCISCO QUILES
	GUY DUCHET
	HORTENCIA FORTUNO
	IVETTE HERNANDEZ
	JAMES MAYFIELD
	JASON CORTES
	JENNIFER LUCERO
	JESSICA RUANO
	JONATHAN ALONZO
	JOSE GODOY
	KAREN GOMEZ
	KATRINA JUAREZ
	LEWIN TOBAN
	MARIA BAHENA
	MARIA TORRES
	PEDRO HERNANDEZ
	RAFAEL MURRO
	REGGIE BREWSTER
	RICKEY VARELA

STEWART AND GRAY RD 2008 (Cont'd)

7117	ROSA RODRIGUEZ
	ROY REEVES
	SALVADOR NUNEZ
	SCOTT HARRIS
	SHEFONDA COLBERT
	STEVE RAMIREZ
	SUSAN CHHAN
	VICTOR CORLETS
	WILLIAM MEHL
	YONG CHUN
	YURIK ZAKARYAN
7118	JUAN ANGUIANO
7120	ANTONIO GAETA
	JORGE BERCIAN
7122	JORGE SOTO
7124	MARTIN CRISTOBAL
7134	CARLOS ESCALANTE
7136	PETER DELUCA
7137	ARCELIA NORIEGA
	DAVID DELACADENA
	DOWNEY WEST GARDEN APARTMENTS
	HELEN GASTALDO
	ISAAC MIRANDA
	JULIE BIGGS
	KARLA HERNANDEZ
	M JANEI
	MARICELA GARCIA
	MARY AVALOS
	MICHELLE PEREZ
	MINERVA CRUZ
	MONA RUIZ
	PATRICK MANOOGIAN
	PEDRO AMBRIZ
	SADIKI FREEMAN
	SANG KIM
	SHANTIZ HARRIEL
	WILLIAM SACKMAN
	YAMILET BRUZUAL
	YOLANDA LUGO
7138	DORA ESCALANTE
7140	LOUIS ARIA
7142	ELMER REITZEL
7144	BERNICE PRUITT
7147	ADRIANA GERMAN
	ALICIA GONZALEZ
	ANNETTE GALVEZ
	BERNADETTE CARTER
	D FLYNN
	DAVID ALEMAN
	DAVID JASSO

STEWART AND GRAY RD 2008 (Cont'd)

7147	DIFFERENT ADVERTISING
	EDGAR BARRIOS
	GERMAN ABRIL
	IN KIM
	JOHN KELLY
	JUAN VELASQUEZ
	LEOPOLD ROBINSON
	LOUANN GEESY
	M SIGUENTA
	REYNA CHAVEZ
	RICK HAZEL
	ROBERT DERRICKSON
	ROSENDO GARCIA
	SUSAN MUNOZ
	TANIA KEKA
	VASILE TIPLEA
7148	JAMES GOODWIN
7150	ANDREW SOLORIO
	MAGDALENA SOLIS
	MARCOS GONZALEZ
7152	ALEYDA SANCHEZ
7154	JAY CANFIELD
	KEVIN CURTICE
	RICHARD HUGGINS
7156	OCCUPANT UNKNOWN
7157	AHMAD KIABI
	ALICIA BELTRAN
	BRENISHA MITCHELL
	CARLOS DELEON
	ELVIA HERRERA
	FERNANDO GONZALEZ
	FIDEL BARRIOS
	LINDA BUZO
	MARIE DOREMUS
	MELISSA FLETCHER
	NAOMI TOBAR
	NICOLA LAURENZA
	RAYMOND EMIRO
	ROBERT HERNANDEZ
	ROBERTO PATINO
	SALVADOR ROMERO
	SARA SODERMAN
	SUSAN BECK
	TRACY NORMAN
7158	CARL JONES
	ROGER FUENTES
7160	INEZ ORTIZ
7162	OCCUPANT UNKNOWN
7164	GEORGE MULLEN
7167	DAMU FREEMAN

STEWART AND GRAY RD 2008 (Cont'd)

7168	DENNIS PASILLAS
7202	FRANCISCO RAMOS
7207	ALICIA MEZA
	ASUNCION MAGANA
	CANDLE WILLIAMS
	CHARLES LILLEY
	DEBRA CIFUENTES
	DENISE LUNA
	EDUARDO CARTAGENA
	ELIAS AMADOR
	I ORDONEZ
	JAMES MCPHERSON
	JAZMINA ESPINOZA
	JUAN ENRIQUEZ
	JUAN HERRERA
	LAURA BOJORQUEZ
	LOUIS APODACA
	LYDIA REYES
	MANUEL CARDOZA
	MARIA ROBLEDO
	SANTOS ALVARADO
	SONIA CETRONE
	TELMA MORALES
7208	DELIA ZATLOUKAL
7275	STEVEN DRULIS
7302	APRIL FORD
7304	JUANITA HAMILTON
7308	KADHIM JAWAS
7314	SARAH THOREN
7320	OCCUPANT UNKNOWN
7326	ALVARO PRECIADO
7332	BERTHA HERMOSILLO
7336	HANY SHEHATA
7338	ARMANDO CHARLES
	CARL ZELAMBO
	GUILLERMO VALENCIA
	MIHAI CIOCEA
	OCCUPANT UNKNOWN
7344	MARIO PERSICO
	MARY DAGANI
7354	DONNAS DRY CLEANERS & LAUNDRY
7356	THE GLEN
7360	VICTORIA NAILS
7362	JOES BARBER STYLIST
7377	DEAN OF VIDEO
7380	EDDIES HAMBURGER
7387	ROYAL FINANCIAL & INVESTMENT
7389	ROYAL FINANCIAL
7391	COCOON IMPORTS
7393	AXEL ADVANCED EXTERMINATORS

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008 (Cont'd)

7395	DEL TIGRE TAQUERIA
7399	OLD RIVER LIQUORS
7400	SEVEN ELEVEN
7410	GLADYS BRYANT
	RUSSELL LUNSFORD
	SHANNON LUND
	WON PARK
7413	LETICIA AGUILLEN
	MARIO ROSETE
	SEUNG BYUN
	VANESSA RODRIGUEZ
	WILLIAM FELLS
7415	JENNIFER CABRERA
	KANANI AUWAE
	TRANSGLOBAL RESOURCE CENTER
7416	LUCINDA SMITH
	MARIA GARCIA
	MIREYA MENDOZA
	SHANTI ERIACHO
7424	ANTHONY AZCARATE
	LANI MORRIS
	LAURA VELASCO
	MARTHA ANGUIANO
	SYLVIA TRAVERSE
7425	APRIL BEMISTER
	CRYSTAL STEGMAIER
	GLORIA MOODY
	GRAY POZO
	JORGE DIAZ
	JUAN NARVAEZ
	MICHELLE AMBRIZ
	RUTH GONZALEZ
7430	CARLOS GERSTENACKER
	EDUARDO MIRAZO
	ENRIQUE CANCHOLA
	JENNIFER KO
	L ROGERS
7435	ANA VENTO
	ISABEL FORTE
	JOSE BELMONT
7436	BETTY WEAVER
	GREG CONTE
	JOSEFINA ALVIZAR
7442	CHARLENE ROCHE
7500	ACADEMIA CORCHEA
	LINDA LEROY
	MICHAEL ROBLES
	WILLIAM SWAIN
7509	CARMEN SELVA
7512	CHRISTOPHER NEWELL

STEWART AND GRAY RD 2008 (Cont'd)

7512	DIANA ACOSTA
	SAM AMADOR
7518	JOO BAHK
	MATTHEW FOUNTAIN
7524	CHRIS PILATO
	JANICE LEARNED
7528	DAVID HERNANDEZ
	GENE FARMER
	R LICON
	RICARDO DANIELS
7546	CB THOMPSON
	CHRIS SHEPPARD
	DINA MILLER
	DONNA ZIEGLER
	DYLAN RUSSELL
	EDVIN ARBURUA
	ELIZABETH RODRIGUEZ
	EUNYONG JUNG
	JOSEPH RAMOS
	LAVERNE HOCKETT
	LEONARDO TRUJILLO
	LILA MARTINEZ
	MARGARET KINSEL
	MARIA MUROWATZ
	MARIELA FERRARI
	MARIO AMAYA
	MARIO COTA
	NORD STAR APARTMENTS
	SAHILA VAZQUEZ
	VICTOR GARCIA
	YONG KIM
	YOUNGSUNG KIM
7602	FRUIT BASKET
	JONG PARK
	MARIA BRAVO
	RICHARD SHIN
	YONG CHOI
7604	ERICA TANACS
	GOLDEN SEAL REAL ESTATE
	JOSE LLIZO
	SANG KIM
7612	CARLOS SALAZAR
7618	TOMAS AISPURO
7624	ANTONIO DIAZ
7632	SARIT CHAND
7634	OCCUPANT UNKNOWN
7640	ROBERT SHAFFER
7644	OLGA REVELO
7646	CESAR MAGANA
7648	OCCUPANT UNKNOWN

STEWART AND GRAY RD 2008 (Cont'd)

7650	JUAN HERRERA
7652	RODRIGO GAMINO
7654	MARVIN HERNANDEZ
7714	ALDO LEYVA
7724	STEPHANIE MORALES
7730	LEYVERTH RODRIGUEZ
7803	ESTELA BAUTISTA
7810	ALEXIS TIPAN
	ANGELA NIBLETT
	DOMANIC ABERY
	GABRIEL AGUAYO
	JOHNNY LOPEZ
	NISLA LUNA
7813	LEUTERIO MACAPAGAL
7815	TED THIA
7817	KONTHEA KANG
7818	ANTONIO RUFINO
	DAVID GUIZADO
	ENRIQUE MARTINEZ
	GARY MOORE
	JANET BLOUNT
	LILIANA GONZALEZ
	MARIO BONILLA
	MARISOL HERNANDEZ
	ORLANDO LLAMPALLAS
	PC TECH & INCOME TAX SERVE
	RICHARD DAVIS
	WILLIAMS WELTER
7819	MASOUD MIKHAIL
7821	JOVITA SANCHEZ
7823	JENNY FIGUEROA
7829	A PIOHIA
	ADRIANA VALADEZ
	DANIEL ENCINA
	DELIA QUINTERO
	EVANGELOS STANITAS
	GERMAN DELGADO
	H LEKIM
	HERBERT AQUINO
	IRENE ESTRELLA
	OMER SOZEN
	SALLY LONDON
	SERGIO SALUP
7830	ANDREA ALFARO
	ANITA BLAIR
	CHARLENE MARTINEZ
	EFRAIN ZUNIGA
	EMILIANA NAVA
	ESTEVAN GINER
	GUILLERMO HERNANDEZ

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008 (Cont'd)

7830	JORGE LUPERCIO
	JOSELINE QUINTANILLA
	KAREN MANOMAT
	LARRY KILLOUGH
	RODOLFO SAENZ
	SHELLI STEPHENSON
7836	BRUCE CHERNEY
	DENISE HARRIS
	HA CHONG
	JESSICA GUTIERREZ
	MARIA RENTERIA
	NANCY MACHADO
	TYESHA LOVELACE
	VICTORIA VELIZ
7841	CLAUDIA DORAN
	JULIO VELASQUEZ
	MIKE RODRIGUEZ
	SREYMUCH YOS
7845	ABELARDO MAJORDO
	BLANCA DELCID
	CARLOS PLEITES
	CEASAR MACIAS
	CLARIBEL ACKERS
	DEE LOPEZ
	DOLORES JONES
	DOWNEY COURTS APARTMENTS
	GLORIA OLIVERA
	JEFFREY TAVARES
	JESSICA PFEIL
	MANSOUR ABDOLI
	MARLOW AUZENNE
	MARY RAFOLS
	MELY MENJIVAR
	MERCEDES SALAZAR
	MONICA BARBOSA
	ODILIA CABRERA
	RUBY TORRES
	SALVADOR MIRANDA
	SHUCHEN CHIEN
	THO NGUYEN
	ULVIO SANCLEMENTE
7846	ISABELE GALLEGOS
	OCCUPANT UNKNOWN
7848	LIDIA ORELLANA
7850	JING LI
7852	OCCUPANT UNKNOWN
7860	BEN HUSBANDS
	BOBBY HUITT
	CARLOS GARRIDO
	D JANG

STEWART AND GRAY RD 2008 (Cont'd)

7860	DANIEL TROYO
	DEBRA AVILA
	EDGAR ROMERO
	ELIZABETH GUERRA
	JOSE CAMPO
	JUAN PURIZACA
	LUZ VERA
	MARIA MURILLO
7861	FANNY CESNEROS
	JAY PORTILLO
	JOSE NAVARRO
	LUIS BARRIOS
	M PEREZ
	MAINUL AHSAN
	MARTIN VALDOVINOS
	PEDRO HERNANDEZ
7862	MOON KIM
7864	KEVIN CHONG
7866	KIRK SEO
7868	KI KU
7870	CLAUDIO MONGE
7871	ALI HARKOUS
	ANGEL VALLEJO
	DIAB DIAB-SR
	FELICITA HIGUERA
	JESUS HERNANDEZ
	JOSHUA SANCHEZ
	LENIKA BELL
	LUZ POSADA
	OLIVERIO GARCIA
	PHILLIP DIAZ
	RONY PEREZ
	ROSA BARROS
	RUIZ GIL ENTERPRISE INC
	VIVIANA RUIZ
7872	GLENN GOODRUM
7874	GENARO SALAZAR
7876	SE KIM
7878	OCCUPANT UNKNOWN
7880	BRIDGETT RODGERS
7900	ERICA ARMENTA
7901	ADEL GIRGIS
	BENITO REYES
	GANNIGA PEUMSANG
	J LOPEZ
	JENNY FLORES
	JESUS CHAVEZ
	JESUS MARTIN
	OSWALD YOCUPICIO
	TERRI HAM

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008 (Cont'd)

7901	VERONICA BARRERA
	ZULFIQAR SHAH
7902	MERCEDES HERNANDEZ
7909	ANA CARMAN
	AURELIA VAZQUEZ
	E GONZALEZ
	HJORGE ANCHETTA
	HYE KANG
	LARRY WILLIAMS
	MARCO CONTRERAS
	SURINDER VIRK
	SUSAN QUESADA
7910	MARIANO BONILLA
7912	CARLOS CASANOVA
	CARMEN FABIAN
	MELECIA SAUCEDO
	MELINDA MUNOZ
	SOLEDAD TORRES
7919	ALMA AGUIRRE
	GIL TINIO
	JULIA CARLOS
	VERONICA GARCIA
	VINCENT GONZALES
7922	ANDREW GARCIA
	ANITA IGLESIAS
	BRENDA MENDOZA
	CHRISTINA FOOR
	DANETTA BALDWIN
	DIMITRI LUCAS
	FRANCISCO ZARAGOZA
	LAZARO MARTINEZ
	LORIANN CONTRERAS
	LUIS VELA
	MARIA PUENTES
	ROBERT LUCAS
	THOMAS BANKS
	TONYA HARPER
7924	MANUEL GODOY
7925	EMILIO RIOS
	FABIOLA PADILLA
	JORGE QUINTERO
	MARCELA TAPIA
	MIRYANA YANKOVICH
	MONICA GRANADOS
	SHAROLYN GAILLIARD
	SILVIA SANCHEZ
7926	MARIA VALDEZ
7928	VASILE TIPLEA
7929	BENIGNO BOVEDA
	CATHY LEMUS

STEWART AND GRAY RD 2008 (Cont'd)

7929	CHRISTIANA HANCOCK
	ERICA RUIZ
	JOHNSON PATRICIA
	JOSE HERNANDEZ
	MARIO BOGRAN
	MERCEDES SARAVIA
	MIRNA YBARRA
	OSCAR GARCIA
	ROBERT FISHMAN
	YOUNG KO
	YOUSEFALI ABKHREH
7930	OCCUPANT UNKNOWN
7932	LUIS VALDEZ
7934	OCCUPANT UNKNOWN
7936	LUIS ROMERO
7940	HECTOR MOLINA
	SUSAN SALAZAR
7941	ARDRA SCHELLO
	JENNIFER OCEGUEDA
	JOSE CHAVARIN
	JOSUE MARCUS
	JULIA FUENTES
	MARY DENAVA
	NOEMY CAAMAL
	SHIRLEY PHILPOT
	VALERIE HERNANDEZ
7944	ANDY GARCIA
	BORIS WITRON
	COLLEEN ABANG
	ERIKA SANCHEZ
	LAURA RENTERIA
	PATRICK ROTHMAN
	PATRICK ZSCHOCHE
7945	CHARLES COX
7947	GERARDO TINOCO
7949	ZENG NU
7951	GUSTAVO OROZCO
	YOUNGTAE KIM
7952	ANGELIQUE FASSETT
	CHUN HAN
	DAVID AREBALO
	GEORGE JOHNSON
	I SIMS
	LISA GARCIA
	LISA PADILLA
	MARIA VAZQUEZ
7955	JAMES WON
7957	CHARMAINE WILLIAMS
7959	JUNGWON CHOI
	LFG INSURANCE AGENCY

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008 (Cont'd)

7961	BYUNG YI
7963	LIBERTY PASCUAL
7965	OCCUPANT UNKNOWN
7969	RONI YONEMOTO
7971	WOO KIM
7973	TERAYLAN HOLLINGSWORTH
7975	VERONICA MOLINA
7977	JOHN GIRIES
8011	HAIR ESSENTIALS
8015	A B C DONUTS
8018	RICHARD LEE DDS
	STEWART & GRAY DENTAL GROUP
8019	PACIFIC BURGERS
8020	STAR ONE HOUR CLEANERS
8022	AGUA VIVA
	SEATTLE WATER
8026	ARC SOUTHEAST LOS ANGELES CNTY
8028	CAPRI SHOE REPAIR
8029	ABDELNOUR ANTIQUES
	ANNA MENDEZ
	BENJAMIN SMITH
	ELLY TECH
	FRANCESCO BELFIORE
	G A TECHNOLOGY
	GEORGE ABDELNOUR
	HECTOR LOPEZ
	HENRY GAMBOA
	HOMER STAINTON
	JAMES DOSTALEK
	MARK TODD
	NORMA DEVELAS
	NORMAN WYATT
8030	COLLEGE FUNDING 101
	PLUS ULTRA INSURANCE
8032	DAVES BARBER SHOP
8034	FASCINATION HAIR DESIGN
	MONIQUE HAIR STYLISTS
8037	A1 WINDOWS & DOORS
	BRIGETTE SOCORRO
	DONALD BEAUDRI
	ELSA RUELAS
	FREDDY ORTEGA
	GARY GIBBS
	HENRY DIAZ
	LEONEL LEYVA
	RAFAEL HERNANDEZ
	RAMON MORALES
	ROBIN MAYORGA
	SALVADOR HERNANDEZ
8040	LUIS CORDOVA

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008 (Cont'd)

8040	MARCO GARCIA
	MELISSA BETANCOURT
	OLIVER CHAMP
	PATRICE ROSS
	ROSA AGUILAR
8101	ARTRANESE BROWN
	DANIEL DOBENS
	E MARTINEZ
	ELIZABETH MONTOYA
	GUSTAVO SERVELLON
	IMELDA MARQUEZ
	JON AIBUEKU
	NADIA FATTALEH
	NARCISO ESPINOZA
	RAYKEL MARTIN
	TODD FANSHAW
	YOLANDA CASTRO
8104	WILLIAM PETERSON
8111	LORETTA BARDEN
	MARINELA BORRMEO
	MATTHEW RAWLS
	SAM EZELL
	SUSAN GARCIA
8112	ANDRES LOPEZ
	DARLENE HARVEY
	JOHN KRISTE
	JOSEPH MEYER
	JUAN AVILA
	MARIBEL SAUCEDA
8115	ARACELY HERRERA
	CHRISTOPHER FANNIN
	DANILO GAGO
	DEVONA ASPEITIA
	EDUARDO FLORES
	JASON WILSON
	JOSE GONZALEZ
	KARINA ENCISO
	KIM PEREZ
	L MCDANIELS
	MARCELINA VALDEZ
	SONIA BARAHONA
	VERONICA DIAZ
	YVONNE SWEET
8116	EMMA SORTO
	LOURDES URIAS
	MASAKO CHAI
	MELISSA CERVANTES
	NOEL CALDERON
	RAY GOETZ
	VIOREL MONTEON

STEWART AND GRAY RD 2008 (Cont'd)

8124	GUSTAVO RODRIGUEZ
	MARICELA FRAGOSO
8127	ABEL ACOSTA
	AIDA PAULINO
	ALFREDO DELGADILLO
	ARACELI GALLEGOS
	BERTHA RODRIGUEZ
	CD MCFADDEN
	DAVID MCFADDEN
	ESPINOZA RAMIREZ
	JOHN PUENTES
	MARIA LARA
	OSCAR RODRIGUEZ
	REBECCA GUTIERREZ
	SORIN VARCIAG
8130	ARTURO GUTIERREZ
	MARTHA GARCIA
	RICHARD QUINONES
	ROY BAGLEY
	SOFIA OROZCO
	STEVE WAGNER
8131	ANN LOUIE
8135	DAVIS YOUNG
	JAMES MELTON
	JOSE KRUEGA
	MARIANA VELASCO
	RAMON SANCHEZ
8136	FRANCISCO CHAIREZ
	JONATHAN HANSON
	MARK ESQUIBEL
	THELMA GIRON
	WILMER EUTSEY
8141	ANDRIA ROSE
	CELESTE PASILLAS
	DONALD COX
	ESPERANZA CARTWRIGHT
	HEATHER SPARLIN
	JAIME TAFOYA
	JOHN BROWN
	JOSE MORA
	KENI MONTERROSA
	KEVIN REA
	LISA DEGER
	MOISES ALONSO
	ROBERT CASEY
	SANDRA NASER
8142	MEL LONG
8202	PEDRO DIAZ
8207	ARMANDO PARTIDA
	CHIEMI LARSEN

STEWART AND GRAY RD 2008 (Cont'd)

8207	DAYTON PERKINS
	DEANNA PETERSEN
	DOUGLASS HALL
	ERIK DONADO
	HENRIETTA HOSPEDALES
	JENNIFER GATBONTON
	MARGO BRUTON
	MARTIN DAVENPORT
	MAYRA OJEDA
	NORMANDY APARTMENTS
	OLIVIA ROWLEY
	SYLVIA CORONA
8213	EDITH BELTRAN
8214	VERONICA TREJO
8217	CLAUDIA RINCON
8219	CARLOS BELTRAN
8220	SEI KANG
8224	ERIC ESPINOZA
8227	BYRON MOLINA
8230	MOISES FRANCO
8235	DUCK MIN
8236	OCCUPANT UNKNOWN
8237	HYUN KIM
	SEUNG SUH
8239	HYE CHUNG
	HYE KIM
	NAE SHIN
	ROSANNA SCHOENBERG
8241	DAVE NAZAROFF
8242	HERBERT WELCH
8243	OCCUPANT UNKNOWN
8248	OCCUPANT UNKNOWN
8249	ANDREW SCHMIDT
8254	TC WATSON
8255	JAVIER RODRIGUEZ
8258	MARISOL LOPEZ
8259	MICHAEL CHONG
8264	LUIS GUZMAN
	M PEREZ
8267	ISIS GRACIANO
8270	DAVID LOPEZ
8276	LUIS GUTIERREZ
8300	CENTURY 21 CB REAL ESTATE CO
8304	DACOM GENERAL INSURANCE
	MBS INCOME TAX SERVICE
8306	HOME REALTY
	MBS INCOME TAX SERVICES
8307	DANIEL SANCHEZ
8308	DOWNEY FLOWERS
8310	PIZZA TIME

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008 (Cont'd)

8320	FOUNTAIN SQUARE LIQUOR
8321	JOM CORP
	ROSA SEPULVEDA
8325	MARIA HURTADO
8326	PANDA BEAR CLEANERS
8328	MR STEVES HAIR STYLIST
8330	SIZZLING THAI KITCHEN
8333	OCCUPANT UNKNOWN
8334	RENE THERRIEN
8336	MARTHA CRUZ
8338	ALFREDO QUESADA
	JOHN YI
8340	ROBERT WARNER
8342	ALEX VILLAPANDO
8345	CESAR GUTIERREZ
8348	JUAN MOREIRA
	OCCUPANT UNKNOWN
8349	LAYNE JACOBSON
8350	MANUEL CESPEDES
	MCR TRANSPORT
	MONICA VIVAS
	OCCUPANT UNKNOWN
8400	ARNOLD FORGET
	EMMA WALKER
	WILLIE MCFEE
8402	OCCUPANT UNKNOWN
8403	DAGOBERTO GIRON
8405	NOE CASTILLO
8406	JOHN TRUJILLO
8408	OCCUPANT UNKNOWN
8409	MITTIE BRYANT
8410	GREG MACIAS
8412	OCCUPANT UNKNOWN
8413	MARIA BARBOZA
8415	OCCUPANT UNKNOWN
8416	FRANK GIORDANO
8417	EFRAIM FERRER
8418	OCCUPANT UNKNOWN
8419	FRANCISCA GUZMAN
8420	OCCUPANT UNKNOWN
8422	GEORGE RODRIGUEZ
8423	BERTHA MALDONADO
8424	OCCUPANT UNKNOWN
8425	OCCUPANT UNKNOWN
8426	OCCUPANT UNKNOWN
8427	MICHAEL CARDOZA
8430	OCCUPANT UNKNOWN
8432	JOVANNA PINTO
8434	WILMA ALBRIGHT
8436	JAMES HUGHES

STEWART AND GRAY RD 2008 (Cont'd)

8436 JESSIE WARD
OCCUPANT UNKNOWN
8437 ART MACIAS
LISSETTE GONZALEZ
MAURICIO MIRANDA
8439 OCCUPANT UNKNOWN
8440 OCCUPANT UNKNOWN
8442 OCCUPANT UNKNOWN
8444 OCCUPANT UNKNOWN
8445 DOUGLAS SALAZAR
8446 MARIELENA RUBIO
OCCUPANT UNKNOWN
8450 CYNTHIA LEON
8501 LUIS FLORES
MAGDALENA FERNANDEZ
SALVADOR VAZQUEZ
8502 OCCUPANT UNKNOWN
8505 LUIS ROSALES
8506 LAURENCE HOELSCHER
8508 OCCUPANT UNKNOWN
8510 BEVERLY JOHNSON
8512 RAQUEL HARMON
8513 CARRIE ORTIZ
N YOUNG
8514 DAVID LOPEZ
8516 CARLA PINEDA
8517 OCCUPANT UNKNOWN
8518 MARIA GARCES
8520 JERRY PETERSON
8521 EILEEN ELLIS
8522 GERALD KLINE
8524 OCCUPANT UNKNOWN
RYAN GRENFELL
8525 CORA GATDULA
8526 ERNESTO BARRERA
KATHLEEN DEMARS
OCCUPANT UNKNOWN
8532 DAVID SEPULVEDA
ZOILA VALDIVIESO
8533 MIRNA MOLINA
8535 BENJAMIN GONZALES
8536 OCCUPANT UNKNOWN
ROBERT DUNCAN
ROLANDO RODRIGUEZ
8538 OCCUPANT UNKNOWN
8539 AFSANEH ROSHAN
8542 YADIRA ZEPEDA
8546 CECILIA AYON
GLADYS WEYANT
8548 OCCUPANT UNKNOWN

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2008 (Cont'd)

8550	CAROLINA RODRIGUEZ
8551	WILLIAM LEW
8552	VERONICA MINERO
8558	ELIZABETH ESQIVEL
8560	ROBERTO CAVAZOS
8600	MIGUEL AGUIRRE
8605	OCCUPANT UNKNOWN
8606	OCCUPANT UNKNOWN
8609	RAFAEL SANDOVAL
8612	EDMUNDO MENDIETA
8615	MARIO VILLAGRAN
8621	LOUISE PAYAN
8622	JUAN MEJIA
8626	ELLA JONES
8627	ANGELA HOLLEN
8628	IVAN LOPEZ
8631	ROSEMARY RODRIGUEZ
8632	MISAEL SOTO
8638	MANUEL PACHECO
8643	RAMIRO DELUCAS
8644	SANDRA NEBAREZ
8647	OCCUPANT UNKNOWN
8650	LEONEL RAMOS
8651	OCCUPANT UNKNOWN
8654	TERESO DELGADILLO
8657	MIGUEL CARRILLO
8660	OCCUPANT UNKNOWN
8663	INEZ BALLESTA
8702	JUAN DELIRA
8703	OCCUPANT UNKNOWN
8706	NICEFORO VAZQUEZ
8707	SOCORRO NARANJO
8708	MYRA PARRAS
8709	JAMES RIVAS
	OCCUPANT UNKNOWN
8710	ISMAEL GARCIA
8712	YOLANDA SALAZAR
8713	DOLORES ORTIZ
	EDGAR GONZALEZ
	KATHY HERNANDEZ
	LARRY CARR
8716	SANDRA AGUIRRE
8718	OCCUPANT UNKNOWN
8719	HECTOR RODRIGUEZ
	SALLY JUAREZ
8721	JUAN BORRELL
	JUDITH SEGURA
	MARIA AGUILAR
	OCCUPANT UNKNOWN
8722	MARIA LEYVA

STEWART AND GRAY RD 2008 (Cont'd)

8723	ARLENE DELACRUZ
	CRYSTAL NAVARETTE
	RICHARD NAVARRETE
8724	LUCIA CALDERON
8725	JACOB SEGOUIA
8726	OSCAR RODRIGUEZ
8729	LIZELY ROLDAN
8730	PRASONG SUTHIPRASERT
8731	AMY FRANCO
8732	SUKIT PUNGDUMRI
8733	CARLOS DUARTE
	JUAN RUIZ
	LITTLE STARS CHILD CARE
8735	OCCUPANT UNKNOWN
8736	INDEPENDENT METALS
	MARIA ACEVEDO
8739	SARA ROSALES
9119	MUHORNG SIN
9143	ION BALARIE
9148	ELSA VALDEZ
	JUAN BUSTAMANTE
	JUANA LOPEZ
	MINERVA ESPINOZA
9151	ATEF ABDELMALAK
9154	ANGELA BURKE
	ANTONIE DAVIS
	BOYD DECHAUSSE
	CARL DELPH
	CIPRIANO LARA
	MARY JONES
	R ESCOBEDO
	ROGER DUNN
	XIAO WU
9157	LISA THOMAS
9160	ARNO HOHN
	EDGAR VILLENAS
	ERIC MOLLE
	EUGENIO TORRES
	MANISH HUMBE
	VILLA DOWNEY
9164	ANA SOLORZANO
	HECTOR AVILA
	JEFF RENFROW
	JOSE SANTILLAN
	LAZARO PEREZ
	LORETTA TYLER
	MARGARITA CARLIN
	YVONNE WISMER
9170	CLAUDIA WATKINS
	CONSTANTIN ROSENBAUER

STEWART AND GRAY RD 2008 (Cont'd)

9170	KYMBERLI HALL
	LUCIANO GONZALEZ
	PEDRO MICHAUS
	PHILLIP RALAYAD
	PHILLIP TICUN
	RODRICK IRVING
	ROGER DUNN
	TIMOTHY WARE
9202	ANDREW MCGUCKI
	BUPPA THAENGTHONG
	HEATHER MUMMERT
	MELINA MARTINEZ
	ROGER DUNN
9203	DRUCILLS LISBEY
	GUILLERMO MARTINEZ
9207	RUDY MEYER
9208	CEDRIC SMITH
	FRANCES RODRIGUEZ
	J CHASE
	JOHNNY ROCHA
	MARK LINO
	MIGUEL CERDA
9211	DUSTIN MOHACSI
9212	ANDREW HUNTOON
	BORIS PADILLA
	HUNBERTO CHAVEZ
	MABEL TARAZONA
	YAFUHIKO YAHAMARA
9216	ANABERTHA BENAVIDES
	BERTHA VALENZUELA
	ENRIQUE RODRIGUEZ
	GEOVANNI TOLEDO
	GERMAN BRIZUELA
	HERNAN LASSO
	JUAN VASQUEZ
	MARIA LUCIO
	MOLINA ONTIVEROS
9217	C BURNELY
	ERIK CABREREA
	ISMAIL KHOZAHI
	WENDY BARRERA
9220	DOLORES MENDOZA
	GABRIELA FLETES
	JANET ESTARES
	JANET HORNA
	MARIA TORRES
9228	GILBERTO RAMIREZ
	JOSE URIARTE-PEREZ
	MANUEL FERNANDEZ
	MARIA LARA

STEWART AND GRAY RD 2008 (Cont'd)

9228	MARIA PALE
	MOLIN ONTIVEROS
	ORTEGA SANCHEZ
	RAMON SALALLANDIA
	RICARDO PARTIDA
	ROSEMARIE ESCALANTE
9229	GIUSEPPA LOMBARDO
	MARIA UVA
9232	TIMOTHY GRAVES
9252	DOWNEY WATER DEPT
9253	OCTAVIA CRANEY
9255	JOSE LOPEZ
9257	MARGARITA PACHECO
	MARGARITA PACHECO
9301	DURAY
	DURAY JF DUNCAN INDUSTRIES INC
	GLENBANK INC
	OMNITEAM INC
9355	HYDROQUIP PUMP & DEWATERING CORP
9368	LEADWAY PLASTICS CORP
9408	LEADWAY PLASTICS INC
9505	RELIABLE POWDER COATING
9540	GANN PRODUCTS CO INC

Target Street	Cross Street	Source
-	✓	Cole Information Services

HALL RD 2003

9236	AEROJET GENERAL CORP
	AMERICAN SUSPENSION
	GENERAL DYNAMICS
	GENERAL DYNMC ORDNNC & TCTCL
	OCCUPANT UNKNOWN
	PRIMEX
9300	JEFFREY MCKEOWN
	OMNIMENT INDUSTRIES INC
	WESFAC INC
9350	WESTERN PACIFIC PULP & PAPER
9400	CINDY BURGOS

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2003

7011	CLEARBROOK FARMS INC
	OCCUPANT UNKNOWN
	ROCKVIEW DAIRIES INC
7024	LANORE SUTTON
7033	ADRIANNE VALLADARES
	ARSENIO FELIX
	ARTURO MEJIA
	BEHROUZ KAZIMI
	BENJAMIN GUTIERREZ
	BRENDA LEWIS
	BRIAN HENSON
	CHERYL MAKEROFF
	CHRISTIAN GONZALEZ
	DELLA CLARK
	DIANE MANNING
	DOLORES MIRELES
	DOROTHY PARIZEK
	EARLENE OTERO
	FRANK MARTINEZ
	GALAL GADO
	GEORGE CALLAHAN
	INES MARISCAL
	JAIME CARMONA
	JAIME PENADO
	JAMES HARRIS
	JAMES LALLY
	JAVIER BORROEL
	JOAN COTTON
	JOHN BURTON
	JOLYNN CORNELIUS
	JOSE GARCIA
	JOSE TOSTADO
	JUAN PRECIADO
	LETICIA DELGADO
	LITA MACKENZIE
	MARIA CARRILLO
	MARIA NUNEZ
	MARIA PORTILLO
	MIGUEL PEREZ
	MOISES ESPINOZA
	OCCUPANT UNKNOWN
	PATRICIA ESPARZA
	PATTY JACKSON
	PRASHA NARKAR
	RICHARD CLAVESILLA
	RICHARD JOHNSON
	RICHARD ORTIZ
	ROBERT LUNA
	ROBIN FLOWERS
	RODRIGO TOVAR

STEWART AND GRAY RD 2003 (Cont'd)

7033	ROSARIO REBOLLAR
	SABINA LOPEZ
	SHAUNA SANDERS
	SHEILA TAYLOR
	SHIRLEY KAUNERT
	STEVEN DORN
	SYLVIA BAHAMONDES
	TAMMY HOOPER
	TIMOTHY RUDOMETKIN
	WANDA COLLIER
	ZELMIRA VALLINI
7052	DENIS SOLORZANO
7100	CHRISTINA RICHKARDAY
7102	OCCUPANT UNKNOWN
7104	JOHN MCGARR
	ROBERTO LINARES
7106	OCCUPANT UNKNOWN
7108	AMPARO HURTADO
7110	ISRAEL ARENAS
7112	ROBERT TURNER
7114	LYNDA THORN
7116	LESLIE OWENS
7117	A BEVILACQUA
	ADVANCED SATELLITE
	ALBERT BRIBIESCA
	ALMA ARELLANO
	ANA GARCIA
	ANTHONY CURRY
	AUSTIN GAMBLIN
	BAHRAM YALZADEH
	CEDRIC JOSEPH
	CLAUDIA ZARRABI
	DAVID CHAN
	DAVID VILLEGAS
	DEBRA BONNAR
	EDGAR CARRANZA
	G CERVANTES
	GRICELDA PONCE
	JOSE GODOY
	LUIS SAUCEDO
	LUIS VERA
	MANUEL GALINDO
	MARGARETTE ANDERSON
	MARIA OFPITIA
	MIRNA ROBLES
	PATRICIA MOJICA
	PEDRO HERNANDEZ
	R IMPERIAL
	RONALD COLEMAN
	SCOTT HARRIS

STEWART AND GRAY RD 2003 (Cont'd)

7117	SHARLA WILDE
	SOUTHLAND SATELLITE
	YOMAIRA TRIAY
	YONG CHUN
	YURIK ZAKARYAN
7120	MARIA GAETA
7124	MARTIN CRISTOBAL
7136	PETER DELUCA
7137	BONG YI
	CARMEN BESADA
	EVERETT LEE
	FRANCISCO LOZA
	JULIE BIGGS
	L VARELA
	LOVIE LEE
	M JANEI
	MARICELA GARCIA
	MARIO VILLAFRANCO
	MARYAM ZADEH
	ROLAND OLIVER
	RONALD ESTRADA
	ROY REYES
	SANDRA HALL
	SEI KIM
	SHANNON LUSK
	WILLIAM SACKMAN
	YAMILET BRUZUAL
	ZAHRA TALAI
7140	LOUIS ARIA
7142	ELMER REITZEL
7144	BERNICE PRUITT
7147	ALEX WALKER
	ANNETTE GALVEZ
	BINARY IMAGING
	BYRON MORALES
	FRANK SANDERS
	GUSTAVO RODRIGUEZ
	HECTOR ROSA
	IN KIM
	JOHN KELLY
	JUAN VELASQUEZ
	JUDITH DADDARIO
	KENDALL HIRAI
	KEVIN AUDET
	LORENA FIGUEROA
	PAUL ALTAMIRANO
	RICK HAZEL
	RILEY WYNA
	ROBERT DERRICKSON
	SHELTON HILL

STEWART AND GRAY RD 2003 (Cont'd)

7147	STEPHANIE HUMADY
	WILLIAM PARRY
7148	OCCUPANT UNKNOWN
7152	ALEYDA SANCHEZ
7156	RICHARD HUGGINS
7157	AHMAD KIABI
	EDUARDO VALLEJO
	HANY ELBEYALY
	HASSAN ELRUMI
	JACK NATSAGYUN
	JOSE CECENA
	JOSE RAMIREZ
	MANUEL MORENO
	MELISSA FLETCHER
	NORMA VEGA
	PATRICIA OLIVAS
	RAYMOND EMIRO
	RICKY ENRIQUEZ
	SALVADOR ROMERO
	TINA AVVAL
	TRACY NORMAN
7158	CARL JONES
	MARIA CONTRERAS
7160	CHRIS BECKHAM
7162	DOLORES CAMPOS
7164	GEORGE MULLEN
7202	FRANCISCO RAMOS
7207	ANNA ROJAS
	BRANDON CRUZ
	CAZAREZ MARLEN
	CYNTHIA SAMHAKSON
	DOUGLAS MEDINA
	ELVIA CORVERA
	EMILY FELIX
	JUAN HERRERA
	MARIA DELGADO
	MIRNA TERRONES
	RICARDO NAJERA
	SERGIO GALINDO
	SHELLY HOLMAN
	SONIA CETRONE
	TELMA MORALES
7208	DELIA ZATLOUKAL
7275	STEVEN DRULIS
7302	APRIL FORD
7304	FREDDIE SMITH
7308	KADHIM JAWAD
7314	SARAH THOREN
7320	CELESTE SUSANY
7326	SHEILA RITCHIE

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2003 (Cont'd)

7328	ELIZABETH GONZALEZ
7336	JENNY BUSTAMANTE
7338	OCCUPANT UNKNOWN
7344	ART GARCIA
	DOROTHY NICHOLS
	GABYS ATTIC
	MARIA PALOMINO
	RONALD BOX
7354	DONNAS DRY CLEANING & LAUNDRY
	OCCUPANT UNKNOWN
7356	THE GLEN
7362	JOES BARBER STYLIST
	RENTARIA RENTARIAJOSE
7364	D & L DRINKING WATER CO
	OCCUPANT UNKNOWN
7368	UNDER A BUCK OR MORE
7375	OCCUPANT UNKNOWN
7377	OCCUPANT UNKNOWN
7380	EDDIES HAMBURGERS
7381	GEORGLINA CARRIL
7383	ROYAL FINANCIAL
7387	CAROLINA CLAROS
7389	BEAUTY PARADISE
	GOLDEN CROWN PROPERTIES
	OCCUPANT UNKNOWN
7391	OCCUPANT UNKNOWN
7395	DEL TIGRE TAQUERIA
	TACOS MEXICANOS
	TAQUERIA DELTIGRE
7399	OLD RIVER JR MART
7410	SHANNON LUND
7413	JANNETTE MORALES
7415	CARLOS HENRIQUEZ
7416	ALEXIS CERREL
	EDDIE JIMENEZ
	GEORGE CANALES
	MARY LEON
	ROSARIO SCHAFFER
	THERESA FLANAGAN
7424	ANTHONY AZCARATE
	LANI MORRIS
	MARIA DURON
7425	ADOLPH ESQUERRA
	CARLOS MARTINEZ
	PETER LEE
	RUTH GONZALEZ
	THELMA FRAUSTO
7430	DAVID ABNEY
	DONALD CHAPMAN
	LETICIA ANAYA

STEWART AND GRAY RD 2003 (Cont'd)

7430 PATRICIA NADEAU
RUDY GARZA
SCOTT FLEMING
SUNG KO
7435 EDITH BRITO
GLORIA SANCHEZ-RICO
ROBERT RICO
7436 TONI CONTE
7442 CHARLENE ROCHE
7500 BILL SWAIN
MICHAEL LAU-ROBLES
7509 EDUARDO LOPEZ
HOLMAN INSURANCE SERVICES
7512 ALFONSO LOPEZ
SHERRY CARBAJO
TRACEY GALINDO
7518 JOO BAHK
MATTHEW FOUNTAIN
7524 CHRIS PILATO
J LEARNED
JUAN BUENO
7528 ANDREW WRITER
ESTHER HERNANDEZ
RICARDO DANIELS
SANDRA ALVAREZ
7546 BYUN KIM
CHRISTOPHER PEARSON
CLAIRE MADDEN
CLARA RIOS
DANIEL DESCHNER
DEBORAH RUSSELL
DEBORAH SHEARER
EDUARDO FERRARI
ELIZABETH RODRIGUEZ
EUNYONG JUNG
EXPRESS TELEPHONE & DATA
FRANK FILIPEK
HECTOR BAUTISTA
JOETTA THOMPSON
LAVERNE HOCKETT
LILLIAN MILLER
MARCELLA NIEMANN
MARIO AMAYA
NEKOLA DELJOSEVIC
NORD STAR APARTMENTS
PAUL CLARKE
WILLIE FLETCHER
7602 JONG PARK
MICHAEL SONG
SUE CHOI RD

STEWART AND GRAY RD 2003 (Cont'd)

7602	YONG CHOI
7604	JEANIE KIM
	MOON CHANG
	MYUNGYOUN CHAE
	S & G ESTATES
	SANG KIM
7612	VICTOR SANCHEZ
7618	IMELDA GALVEZ
7624	DIAZ PENA
7632	SARIT CHAND
7634	CAROLYN TYLER
7640	ROBERT SHAFFER
7644	TONY LEE
7646	CESAR MAGANA
7648	ROBIN NOVICK
7650	ARMANDO ZAVALA
7652	RODRIGO GAMINO
7654	JAMES LEE
7714	LUIS LEYVA
7722	JENNIE CRUM
7724	OCCUPANT UNKNOWN
7730	DAVID HERNANDEZ
7803	ESTELA BAUTISTA
7810	JOHNNY LOPEZ
	JUAN CORONA
	MARIO HERRERA
	NORMAN FORGET
7813	LEUTERIO MACAPAGAL
7815	TED THIA
7817	KONTHEA KANG
7818	ANTONIA PRIEST
	CECILIA CURTISS
	ELLA SIMPSON
	JEWELL MOIOLA
	NANCY ORTEGA
	PHILLIP RIVERON
	RICHARD DAVIS
	RICK STEELE
	WILLIAMS WELTER
7819	MASOUD MIKHAIL
7823	SVED HUSSAIN
7829	BERNARDO CARRILLO
	DANIEL ENCINA
	DELIA QUINTERO
	H LEKIM
	IRENE ESTRELLA
	JAVIER ELIZALDE
	LUCY SALUP
	OCCUPANT UNKNOWN
	PATRICIA ALMEIDA

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2003 (Cont'd)

7830	ALLEN MCCARTY
	BEATRIZ MARTINEZ
	ESTEVAN GINER
	HENRY ANGULO
	JAVIER OCHOA
	KENNETH OGBOGU
	LARRY KILLOUGH
	LYNN BLAIR
	MARCO POLO APARTMENTS
	MARCOS MONTEJO
	MAURICIO BARAJAS
	NANCY PRADO
7836	ALMA GARCIA
	DENISE HARRIS
	JESSICA GUTIERREZ
	JESSICA LOMELI
7841	CATALINA MARTINEZ
	EDGAR GAZITUA
	JOHN HALE
	JOSE VERGARA
	MARIA BARRAZA
	MIGUEL PERONA
	MYRNA SANDOVAL
	RODOLFO NUNEZ
	VIOLETA GUTIEREZ
7845	ANA CARMEN
	BLANCA DELCID
	CEZAR MONZON
	DAVID PURGASON
	DOLORES JONES
	JENY CASTRO
	JI AN
	JULIO VELASQUEZ
	MARK CAILLIER
	NA AHN
	OSWALDO APARICIO
	RONALD NYGREN
	SAHARA APARTMENTS
	STEVE ALDACO
	THO NGUYEN
	ULVIO SANCLEMENTE
	YOLANDA MORENO
	YUKA HASEGAWA
7846	GARY DEAN
7848	OCCUPANT UNKNOWN
7850	OCCUPANT UNKNOWN
7852	STEVEN MAJOR
7860	BEN HUSBANDS
	DUNG LAM
	ELLEN AU

STEWART AND GRAY RD 2003 (Cont'd)

7860	HENRY KEOKOT
	LAURA TAPIA
	LAURA ZUNIGA
	LUZ VERA
	MARIA VILLANUEVA
	NOEMI ARELLANO
	PASCUAL GARRIDO
7861	ADEEB YASSA
	BELINDA RAMOS
	EDWARD BLANCK
	FRANCISCO OROZCO
	GLORIA REINA
	JESUS PONCE
	JOSE NAVARRO
	JUDY CHAVEZ
	LUIS BARRIOS
	LUIS CISNEROS
	NORMA TORRES
	PEDRO HERNANDEZ
	WALTER PAPANEK
	YOEL BERRIOS
7862	PAUL KIM
7864	OCCUPANT UNKNOWN
7866	KIRK SEO
7868	GARY HIGA
7870	CLAUDIO MONGE
	MARY PASTERSKI
7871	DAVID CERVANTES
	JESUS HERNANDEZ
	JOSE GOMEZ
	LAZARO MENOYAESPINOZA
	LENIKA BELL
	LOURDES SANCHEZ
	PHILLIP DIAZ
	ROBINSON RUIZ
	ROBINSON RUIZ-BARROS
	SERGIO GARCIA
	SONIA JACKSON
7872	GERALD BROWN
7874	MAICO FAILLA
7876	KENNETH PARK
7878	SIDDHARTH GANDHI
7880	BRIDGETT RODGERS
7900	ALFREDO ARMENTA
7901	ADEL GIRGIS
	ALEXANDER HERRERA
	AMJAD SHOUMAN
	GUADALUPE MARIN
	J SANCHEZ
	JESUS GARCIA

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2003 (Cont'd)

7901	K BATISTE
	LETICIA GONZALEZ
	MARIA BARAJAS
	MICHAEL MARTINEZ
	PINTO LOPEZ
	RAMON PEREZ
	ROGELIA GUTIERREZ
7902	CARLOS HENRIQUEZ
7906	MARIA MENDOZA
7909	AURELIA VASQUEZ
	JOSUE AMARAL
	JOSUE BARGES
	JOSUE BORGES
	MARIBEL PEREZ
	MONICA ESCOBAR
	ROMY GALLARDO
7910	MARIANO BONILLA
7912	SOLEDAD TORRES
7919	ANACELIA CRUZ
	EDSON SOLTERO
	SERGIO ESTEVEZ
7922	ANITA IGLESIAS
	CARLOS HERNANDEZ
	DAIL LYONS
	FRANCISCO ZARAGOZA
	J PAIK
	MAGDALENA TARANGO
	ROBERT LUCAS
	SEKHAR NAIR
	TERESA DUENAS
	THOMAS BANKS
	YOLANDA CASTRO
	YOLANDA PUENTES
7925	DIANE MELIN
	EMILIO RIOS
	FABIOLA PADILLA
	HECTOR BRISENO
	MARJORIE STARKEY
	MISTY BYKOSKI
	ROBERT DREES
	SILVIA SANCHEZ
7929	BENIGNO BOVEDA
	CARMEN QUINONES
	DORA SOTOAVILA
	FRANK BURNETTE
	JOSE HERNANDEZ
	PATRICIA SARAVIA
	ROBERT FISHMAN
	ROCIO RODRIGUEZ
	SANDRA ARIAS

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 2003 (Cont'd)

7929 SOCORRO APALETA
SWANNY RO
VERONICA CORTEZ
YOUSEFALI ABKHREH
ZEUS CUBIAS
7930 OCCUPANT UNKNOWN
7936 LUIS ROMERO
7940 EMILIO GONZALEZ
ISMAEL RIVERA
MAYRA DIAZ
7941 ALLIE PHILPOT
ARDRA SCHELLO
JOSUE MARCUS
JUAN GONZALEZ
KHAWAJA HUSSAIN
MARGIE LOZANO
ROSA GARCIA
VALERIE HERNANDEZ
7944 DANIEL ENRIGUEZ
G RENDON
LAURA RENTERIA
RODOLFO PRECIADO
SAMUEL ROTHMAN
7945 SHAWN TASCHNER
7947 TERISA ROND
7952 CHUN HAN
DAVID AREBALO
MICHAEL GARCIA
MU KWON
8011 HAIR ESSENTIALS
OCCUPANT UNKNOWN
8015 ABC DONUTS
OCCUPANT UNKNOWN
8018 MARIA CESARE DDS
PAT PATEL
STEWART & GRAY DENTAL GROUP
8019 OCCUPANT UNKNOWN
PACIFIC BURGERS
8020 SONG OH
STAR ONE HOUR CLEANERS
8022 OCCUPANT UNKNOWN
8028 CAPRI SHOE REPAIR
OCCUPANT UNKNOWN
8029 ANDREW LOPEZ
BENJAMIN SMITH
DAVE ELDRIDGE
HENRY GAMBOA
JESSIE GUERRERO
JO RECTOR
RICHARD LEMMEL

STEWART AND GRAY RD 2003 (Cont'd)

8029 ROSA BONILLA
8032 DAVES BARBER SHOP
OCCUPANT UNKNOWN
8034 MONIQUE HAIR STYLISTS
8037 DONALD BEAUDRI
FREDDY ORTEGA
JANE BAILEY
LEONEL LEIVA
MANUEL CASTRO
ROBERT RAMOS
SHELLEY CROZIER
8040 BRIGETTE GIRON
DANIELLA FALDANA
DANIELLA SALDANA
LUIS CORDOVA
MICHAEL MUNOZ
ROSA AGUILAR
8101 GUSTAVO SERVELLON
MIDLAND MEDICAL SUPPLIES
REFAAT HAROUN
SHAJUANA BRADFORD
8111 BENJAMIN BARIAS
RUDY MARTINEZ
TIFFANY PARSLEY
8112 ANGELA LOPEZ
CARLOS SALTOS
DARLENE HARVEY
JOHN KRISTE
JUAN AVILA
LOUIS GARD
ORLANDO FERNANDEZ
VERONICA AMESCUA
8115 ABRAHAM MONTERO
ARACELY HERRERA
EUN KIM
GLORIA FUENTES
HENRY GOLLETE
KAREN MARTELLI
KEE KANG
LISA FANNIN
MARCIAL ASTUDILLO
MARLYN NAVAS
MERCEDES RODRIGUEZ
MYRIAM NAVAEZ
RAFAEL ARIAS
SUN BAIK
8116 AGNES BARRIOS
JAIME DIAZ
JAIMES NETWORKING LOGISTICS
VICTORINO VALDEZ

STEWART AND GRAY RD 2003 (Cont'd)

8124	ARLENE RECANO
	JOSEPH POWELL
8127	ABEL ACOSTA
	CALVIN HESTER
	CHRISTOPHER DABBS
	DAVID MCFADDEN
	DEBORAH HUDSON
	ENDY LOPEZ
	HECTOR MEJIAS
	MONICA SANCHEZ
	SORIN VARCIAG
8130	MIRELLA DAVALOS
8135	DAVIS YOUNG
	FRANCISCA LLERENA
	MARIA DUARTE
	RUTH CURIEL
	SHARON WEST
	SUMMER SKEIE
8136	GLENN PALMER
	JONATHAN HANSON
	SCOTT WATERS
	WILMER EUTSEY
8141	CELESTE PASILLAS
	DONALD COX
	ESPERANZA CARTWRIGHT
	FRANK MONHARAZ
	GENE GOODWIN
	MOISES ALONSO
	PATRICIA EDDY
	PAUL SPEAR
	ROBERT CASEY
	SANDRA VARELA
	SUSAN MEDOZA
8202	PEDRO DIAZ
8207	ANDREA ACEVEDO
	DALIA MONTERROSO
	DIANE COATS
	ERIK DONADO
	FRANCISCO CONTRERAS
	JENNIFER GATBONTON
	KARLA VELASQUEZ
	MICHAEL SILVA
	MICHELLE DIAZ
8208	HARRY LONG
8213	JOSE LLANERAS
8214	FARDY VALEZ
8217	MARCOS BELTRAN
8219	CARLOS BELTRAN
8220	SEI KANG
8224	HARRY CRAFT

STEWART AND GRAY RD 2003 (Cont'd)

8227 WILFREDO MOLINA
8230 MOISES FRANCO
8235 DUCK MIN
MIN DUCK GI
8236 CARMEN STROUD
8237 GUSTAVO EFFIO
MARY NOLTEN
OPAL WALLENTINE
SUNG KANG
8239 NAE SHIN
8242 HERBERT WELCH
8243 BETTY NAZAROFF
8248 SCOTT DEVEREUX
8249 PLINIO SCHMIDT
8254 T WATSON
8255 JAVIER RODRIGUEZ
8258 MANUEL DELGADO
8259 MICHAEL CHONG
8264 MARCELINO AFABLE
8267 CLARA YOS
8270 EVAN MORRIS
8276 GT ELECTRIC
WILSON TORRES
8300 OCCUPANT UNKNOWN
8304 DACOM GENERAL INSURANCE
DENNIS MOYER
DENNIS MOYER
8306 HOME LOANS OF AMERICA
HOME REALTY
OCCUPANT UNKNOWN
8308 ANNAS FLOWERS & GIFTS
8310 PAPAJOES PIZZA
PIZZA TIME CO
8312 J L CO
8320 FOUNTAIN SQUARE LIQUOR
JARIN DUMRUGS
8321 JOHN AGUILAR
8324 OCCUPANT UNKNOWN
8325 MARIA HURTADO
8326 OCCUPANT UNKNOWN
STEWART CLEANERS
8328 MARTYS
OCCUPANT UNKNOWN
STEVES HAIRSTYLIST FOR MEN
8329 OCCUPANT UNKNOWN
8330 SIZZLING THAI KITCHEN
8333 OCCUPANT UNKNOWN
8334 GILMA RODRIGUEZ
8335 OCCUPANT UNKNOWN
8336 MARTHA CRUZ

STEWART AND GRAY RD 2003 (Cont'd)

8338	ALFREDO QUESADA
	JOHN YI
8340	OCCUPANT UNKNOWN
8342	ADRIAN RODRIGUEZ
8345	OCCUPANT UNKNOWN
8348	CHRISTINA AVILA
8349	DANIEL LOPEZ
8350	MONIQUE VALDEZ
	OCCUPANT UNKNOWN
8400	ARNOLD FORGET
	EMMA WALKER
8402	MARIO CASAS
8403	DAGOBERTO GIRON
8405	HERIBERTO GONZALEZ
8406	OCCUPANT UNKNOWN
8408	OCCUPANT UNKNOWN
8409	RANDOLPH BRYANT
8410	SHARON MACIAS
8412	ROSIE DUARTE
8413	MARIA BARBOZA
8415	MARIO OLIVA
8416	FRANK GIORDANO
8417	OCCUPANT UNKNOWN
8418	OCCUPANT UNKNOWN
8419	FRANCISCA GUZMAN
8420	OCCUPANT UNKNOWN
8423	MICHAEL LEE
8424	ROLANDO RODRIGUEZ
8425	OCCUPANT UNKNOWN
8426	ARMANDO CHAVEZ
8429	JOSE CARRILLO
8430	OCCUPANT UNKNOWN
8432	OCCUPANT UNKNOWN
8434	OCCUPANT UNKNOWN
8436	JAMES HUGHES
	JESSIE WARD
8437	KEVIN MCCLURE
8439	VIVIAN VANRAALTEN
8440	OCCUPANT UNKNOWN
8442	OCCUPANT UNKNOWN
8444	OCCUPANT UNKNOWN
8445	DOUGLAS SALAZAR
8446	OCCUPANT UNKNOWN
8450	KATHLEEN COOK
8501	JUANITA CONTRERAS
	MAGDALENA FERNANDEZ
8502	BERNARDO ENCINAS
8505	LUIS FLORESROSALES
8506	ANGELICA FERMIN
8508	RAYMOND LOPEZ

STEWART AND GRAY RD 2003 (Cont'd)

8510	NORMAN JOHNSON
8512	OCCUPANT UNKNOWN
8513	CARRIE ORTIZ
8516	CARLA PINEDA
8520	JERRY PETERSON
8521	OKEY HOLBROOK
	RAFAEL MENENDEZ
8522	GERALD KLINE
8524	NELLIE ROBERTS
	OCCUPANT UNKNOWN
8525	CORAZON GATDULA
8526	KATHLEEN DEMARS
8528	CARLOS CHAVEZ
8532	R ARCIAGA
	ZOILA VALDIVIESO
8533	WILLIAM GORNTO
8535	OCCUPANT UNKNOWN
8536	ROBERT DUNCAN
8538	OCCUPANT UNKNOWN
8539	MICHAEL DAVIDSON
8542	GLENDA CAMPBELL
8546	GLADYS WEYANT
8548	CARLA ROSALES
8550	ERIC WILLIAMS
8551	WILLIAM LEW
8552	OCCUPANT UNKNOWN
8558	OCCUPANT UNKNOWN
8560	ROBERTO CAVAZOS
8600	MIGUEL AGUIRRE
8605	MARIA ENCISO
8606	JOSE GOMEZ
8609	RAFAEL SANDOVAL
8612	YOLANDA MENDIETA
8615	SAMUEL MENDOZA
8621	LOUISE PAYAN
8622	TODD GUGGENMOS
8627	MICHAEL HIPSMAN
8628	IVAN LOPEZ
8631	DAVID RODRIGUEZ
8632	BRIGIDA BAHENA
8637	POLLY EMISON
8638	MANUEL PACHECO
8643	ARACELI MARTINEZ
8644	JOE GUTIERREZ
8647	GILBERT DEGEN
8650	ROSELIA RAMIREZ
8654	INGRID ROSALES
8657	MIGUEL ACEVES
8660	CATHY BLACKBURN
8663	KATHLEEN SINNETT

STEWART AND GRAY RD 2003 (Cont'd)

8702	JUAN DELIRA
8703	JULIA ELIAS
8706	K VASQUEZ
	NICEFORO VAZQUEZ
8707	SOCORRO NARANJO
8708	MYRA PARRAS
8710	PATRICIA LITTLE
8712	YOLANDA SALAZAR
8713	LARRY CARR
	MARGIE IGLESIAS
8715	EDGAR GONZALEZ
	MARTIN IBARRA
8716	SANDRA AGUIRRE
8718	DIANA PAZ
8721	OCCUPANT UNKNOWN
8722	AURORA CALDERON
8723	ARLENE DELACRUZ
	CRYSTAL NAVARRETE
8724	RICARDO BORJAS
8725	OCCUPANT UNKNOWN
8726	OSCAR RODRIGUEZ
8729	JOSE FRANCO
8730	CHITRAPORN SUTHIPRASER
	CHITRAPORN SUTHIPRASERT
8731	OCCUPANT UNKNOWN
8733	ROBERTO RAMOS
8736	CARLOS MORENO
8738	MANUEL ALVAREZ
8739	ABRAHAM SANTANA
	ANA ORNELAS
	RICHARDO MEDRANO
9119	SEANG SIN
9143	ION BALARIE
9148	ELSA VALDEZ
	HECTOR PEREZ
	MINERVA ESPINOZA
	PEDRO ROMO
9151	MIRNA TOVALIN
9154	JULIUS DECHAUSSE
	LARK SANTOS
	MARCELINO DIAZARCE
	MOHAMMED FAIROSH
	ROGER DUNN
9157	L THOMAS
9160	MANISH HUMBE
	REGINA ESPINOZA
	VILLA DOWNEY
9163	OCCUPANT UNKNOWN
9164	ANA SOLORZANO
	LESIE TYLER

STEWART AND GRAY RD 2003 (Cont'd)

9164	NICOLE WISMER
	XING LO
9170	CONSTANTIN ROSENBAUER
	JESUS TICUN
	KELLEY TELLEZ
	PHILLIP RALAYAD
	REYNA MICHAUS
	ROGER DUNN
9202	ANIS RAHMAN
	BUPPA THAENGTHONG
	DUYBAO NGUYEN
	GASTON RINTA
	JOANNE BARRIENTOS
	MEREDITH OGAWA
9203	AGNES BEDRAN
	GUILLERMO MARTINEZ
9207	RUDOLPH MEYER
9208	CESAR CALDERON
	ELIN DURRIE
	J ESTRADA
	MARK LINO
	MIGUEL CERDA
	ROGER DUNN
9211	KAYCO CONSTRUCTION
	KENNETH KAY
9212	KEN SHREVES
	RENE GARCIA
	RICKI WENZ
	ROGELIO CHAVEZ
	TEODOMIRO HERNANDEZ
9216	ADRIAN RODRIGUEZ
	EDUARDO RAMIREZ
	GEOVANNI TOLEDO
	GERMAN BRIZUELA
	HILDA TAYPE
	MANUEL GUTIERREZ
	MICHELLE FUENTES
9217	FADIA MOSRI-AYUB
	GHASSAN MOSRIE
	HAROLD NELSON
	ROLAND ALCORTA
	ROSA DEVILLALTA
	WENDY BARRERA
9220	BLANCA RAMIREZ
	CONNIE MORA
	FRANCISCO RUIZ
	GLADYS LOPEZ
	LOURDES DIAZ
	MARCIA ORTIZ
	MONICA CAZARES

STEWART AND GRAY RD 2003 (Cont'd)

9220 SERGIO GARCIA
YANICZIO CASTRO
YOLANDA ZURITA
9228 ALBERTO PITALUA
JESSICA VENTE
MARIA ESCALANTE
MARIA PALE
RICARDO DOMENZAIN
9229 TRILEK ELECTRIC INC
9232 TIM GRAVES
9253 OCTAVIA CRANEY
9255 MARTIN SANCHEZ
9257 MARGARITA PACHECO
9301 DUNCAN DURAY/JF INC
DURAY DUNCAN INDUSTRIES INC
DURAY INC
DURAY/JF DUNCAN INDUSTRIES
JOHNNY WONG
9333 WESTERN PACIFIC PULP & PAPER
9355 HYDROQUIP PUMP & DEWATERING
9368 LEADWAY PLASTICS CORP
OCCUPANT UNKNOWN
9420 OCCUPANT UNKNOWN
9426 JC WELDING
OCCUPANT UNKNOWN
PERKINS IRON & FENCE
9520 OCCUPANT UNKNOWN
RAMP INTERNATIONAL
RLBL ARCFT MNTNNC PDTS INTL
9525 OCCUPANT UNKNOWN
9540 GANN PRODUCTS CO
OCCUPANT UNKNOWN
WENDEL GANN CORP
9600 STAIN STEEL INC

Target Street	Cross Street	Source
-	✓	Cole Information Services

HALL RD 1999

9236	AEROJET-GENERAL CORPORATION AEROJET ORD COMPANY
	PRIMEX TECHNOLOGY
9300	INTERSECTION DEVELOPMENT CORPORATION
9350	WESTERN PACIFIC PULP & PAPER INCORPORATED
9400	HUDD DISTRIBUTION SERVICES INCORPORATED

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1999

7011	ROCKVIEW DAIRIES INCORPORATED
7024	LANORE SUTTON
7033	ADRIANNE VALLADARES
	ALBERTO PEREZ
	ANDREA VANROSMALEN
	ANGEL RODRIGUEZ
	ARSENIO FELIX
	BEATRIZ VELASQUEZ
	BENJAMIN GUTIERREZ
	BENJAMIN JACKSON
	C FRIEDMAN
	CARL ZELAMBO
	CECIL REYES
	CENIA GALINDO
	CHESTER SANDERS
	DIANE MANNING
	DOLORES MIRELES
	DOROTHY PARIZEK
	DUSTIN HERNANDEZ
	EARLENE OTERO
	FILEMON DIAZ
	FILEMON SANCHEZ
	FRANCISCO CANCEL
	FRANK MARTINEZ
	GABRIEL ANDRADE
	GALALELDIN GADO
	GEORGE OLAGUE
	GERARDO MORENO
	GHASEM MAZLOUMI
	INES MARISCAL
	JAIME CARMONA
	JAMES HARRIS
	JOAN SAUER
	JOHN BURTON
	JOLYNN CORNELIUS
	JOSE HOLGUIN
	JOSE LEON
	LEANNE ROJAS
	LITA MACKENZIE
	LUZ CARDONA
	MARIA GUERRA
	MARIA NUNEZ
	MARIA PORTILLO
	MARYANI GARCIA
	MIGUEL GONZALEZ
	OCTABEL LINARES
	OLGA ALVAREZ
	PHILIPP COVINGTON
	RICHARD JOHNSON
	RICHARD ORTIZ

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1999 (Cont'd)

7033	ROBERT LUNA
	ROBIN FLOWERS
	ROSARIO REBOLLAR
	VERONICA GUDINO
	VICTOR MONROY
	ZELMIRA VALLINI
	ZOILA MARROQUIN
7044	DANIEL LARA
7052	DENIS SOLORZANO
7102	MARTHA GARCIA
7106	EMANUEL STONE
7108	JOSE SOTO
	OCCUPANT UNKNOWN
7112	ROBERT TURNER
7114	LYNDA THORN
7116	LESLIE OWENS
7117	ALFREDA BARRY
	ALVIN HAVESON
	ANA ALDANA
	ANA BEVILACQUA
	ARTURO CARRILLO
	BAHRAM YALZADEH
	BARBARA GUTIERREZ
	BRENDA BEJAR
	CARMEN TORRES
	CEDRIC JOSEPH
	CHRISTOPHER SCOTT
	CRISTAL ESTRADA
	DANNY CHRISTAIN
	DAVID WILLIAMS
	DONALD ROMERO
	EARLEAN MARTIN
	EDUARDO ORTIZ
	FRANCISCO QUILES
	GRAYSTONE MANOR APARTMENTS
	GUILLERMO DELGADO
	JASON AHERN
	JENNIFER LUCERO
	JESSICA TYRRELL
	JONATHAN ALONZO
	JOSE BANUELOS
	JOSE GODOY
	KAREN GOMEZ
	KATRINA JUAREZ
	KEMMERER INSURANCE
	LEWIN TOBAN
	MIRNA ROBLES
	RAFAEL MURRO
	REGGIE BREWSTER
	RICKEY VARELA

STEWART AND GRAY RD 1999 (Cont'd)

7117	ROSA RODRIGUEZ
	ROY REEVES
	SALVADOR NUNEZ
	SANDRA TOVAR
	SHEFONDA COLBERT
	STEVE RAMIREZ
	SUSAN CHHAN
	SYLVIA HERNANDEZ
	YONG CHUN
	YURIK ZAKARYAN
7118	JUAN ANGUIANO
7120	ANTONIO GAETA
	JORGE BERCIAN
7122	JORGE SOTO
7124	MARTIN CRISTOBAL
	OCCUPANT UNKNOWN
7136	PETER DELUCA
7137	ALAN WHICKUM
	ARCELIA NORIEGA
	CARLOS ORPINELA
	DOWNEY WEST GARDEN APARTMENTS
	HELEN GASTALDO
	JESSICA WYMAN
	MARY AVALOS
	MICHELLE PEREZ
	MINERVA CRUZ
	OLIVER PERRY
	PEDRO AMBRIZ
	PETER YOO
	SEI KIM
	WENDY VILLAGRAN
	YOLANDA LUGO
7138	DORA ESCALANTE
7140	LOUIS ARIA
	OCCUPANT UNKNOWN
7142	ELMER REITZEL
7144	BERNICE PRUITT
7147	ADRIANA GERMAN
	ALICIA GONZALEZ
	ALMA CEJA
	ANNETTE GALVEZ
	D FLYNN
	DAVID ALEMAN
	DAVID JASSO
	ERIKA LOPEZ
	GUSTAVO HERNANDEZ
	IN KIM
	JOHN KELLY
	LEOPOLD ROBINSON
	LOUANN GEESY

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1999 (Cont'd)

7147 M SIGUENTA
MAGGIE SIGUENZA
RICK HAZEL
ROBERT DERRICKSON
ROSENDO GARCIA
SUSAN MUNOZ
TANIA KEKA
VASILE TIPLEA
VICTOR LAM
ZOBEIDA CHAVEZ
7148 JAMES GOODWIN
7150 ANDREW SOLORIO
CAROL GRAVIUS
MARCOS GONZALEZ
7152 ALEYDA SANCHEZ
OCCUPANT UNKNOWN
7154 KEVIN CURTICE
OCCUPANT UNKNOWN
7156 JAY CANFIELD
7157 ALFRED HIGA
ALICIA BELTRAN
ELVIA HERRERA
FERNANDO GONZALEZ
GLENDA BENNETT
JAIRO GONZALEA
JOSE AREVALOS
MARIE DOREMUS
MELISSA FLETCHER
NICOLA LAURENZA
NORMA CASTILLO
RAYMOND EMIRO
ROBERT HERNANDEZ
SALVADOR ROMERO
SARA SODERMAN
STEVE REINART
STEVEN DRAPER
SUSAN BECK
TED MATTHIES
TRACY NORMAN
7158 CARL JONES
ROGER FUENTES
7160 INEZ ORTIZ
OCCUPANT UNKNOWN
7162 TRAVIS MULLEN
7164 GEORGE MULLEN
7167 DAMU FREEMAN
7168 DENNIS PASILLAS
7202 FRANCISCO RAMOS
OCCUPANT UNKNOWN
7207 ALICIA ARELLANO

STEWART AND GRAY RD 1999 (Cont'd)

7207	ASUNCION MAGANA
	CANDLE WILLIAMS
	CHARLES LILLEY
	DEBRA CIFUENTES
	DENISE LUNA
	EDUARDO CARTAGENA
	ELIZA FERNANDEZ
	I ORDONEZ
	ISRAEL MARQUEZ
	JAMES MCPHERSON
	JAZMINA ESPINOZA
	JUAN ENRIQUEZ
	LAURA BOJORQUEZ
	LOUIS APODACA
	LYDIA REYES
	MARIA DELGADO
	MARTIN CARDOZA
	SONIA CETRONE
	SYLVIA ALVARADO
	WILLIAM BLUSH
7208	DELIA ZATLOUKAL
7275	STEVEN DRULIS
7302	AARON CARR
	APRIL FORD
7304	ANESIA CARR
7308	KADHIM JAWAS
7314	SARAH THOREN
7326	ALVARO PRECIADO
	WILLIAM RITCHIE
7328	ENRIQUE CHAVEZ
7332	OSCAR RUBIO
7338	ALINA CIOCEA
7344	JOSEPH ISRAWI
	MARIO PERSICO
	SOUTHERN FRESH PRODUCE
7354	DONNAS DRY CLEANING AND LAUNDRY
7356	THE GLEN
7360	NUMBER 1 NAILS
7364	D & L DRINKING WATER COMPANY
7368	C & T FURNITURE
	UNDER A BUCK OR MORE
7375	DONUTS & CROISSANTS
7377	DEAN OF VIDEO
7379	DEAN OF VIDEO
7380	EDDIE'S HAMBURGERS
7387	ROYAL FINANCIAL
7389	ELEPHANT JUMP
	FINANCIAL TECHNOLOGY INCORPORATED
	GOLDEN CROWN PROPERTIES
7391	FELGAR TRUCKING INCORPORATED

STEWART AND GRAY RD 1999 (Cont'd)

7395 TACOS MEXICANOS
7399 OLD RIVER JR MART
7400 7 ELEVEN FOOD STORES STORES
7410 GLADYS BRYANT
RUSSELL LUNSFORD
SHANNON LUND
WON PARK
7413 LETICIA AGUILLEN
MARIO ROSETE
SEUNG BYUN
VANESSA RODRIGUEZ
WILLIAM FELLS
7415 JENNIFER CABRERA
KANANI AUWAE
7416 ANGEL GARCIA
DENISE ERIACHO
LUCINDA SMITH
MIREYA MENDOZA
7424 ANTHONY AZCARATE
LANI MORRIS
MARTHA ANGUIANO
NINFA ARCE
SYLVIA TRAVERSE
7425 APRIL BEMISTER
CRAIG HAASIS
GLORIA MOODY
GRAY POZO
JUAN NARVAEZ
KRISTEN GARRETT
7430 ANDREW QUESADA
CARLOS GERSTENACKER
ELIZABETH CALDERON
ELIZABETH CORONA
ENRIQUE CANCHOLA
JENNIFER KO
TY RODGERS
7435 ANA VENTO
ISABEL FORTE
JOSE BELMONT
NANCY MARTIN
7436 CAROLINE LEWIS
ERIC WEAVER
GREG CONTE
JOSEFINA ALVIZAR
7442 CHARLENE ROCHE
OCCUPANT UNKNOWN
7500 LINDA LEROY
MICHAEL ROBLES
WILLIAM SWAIN
7509 CARMEN SELVA

STEWART AND GRAY RD 1999 (Cont'd)

7509	HOLMAN INSURANCE SERVICES
7512	DIANA ACOSTA
	OCCUPANT UNKNOWN
7518	JOO BAHK
7524	CHARLENE WOHLFORD
	CHRIS PILATO
	JANICE LEARNED
7528	DAVID HERNANDEZ
	RICARDO DANIELS
7546	ANA AMAYA
	DENISE GERDING
	DONNA ZIEGLER
	DYLAN RUSSELL
	EFIGENIO BAUTISTA
	ELIZABETH RODRIGUEZ
	EUNYONG JUNG
	GARCIA HERNANDEZ
	GEORGE EDGINTON
	HARRY MADDEN
	JOSE COSIO
	JOSE MUROWATZ
	JOSEPH RAMOS
	JUAN GOMEZ
	JULIO MARTINEZ
	LAVERNE HOCKETT
	LILA MARTINEZ
	MANUEL GARCIA
	MARGARET KINSEL
	NORD STAR APARTMENTS
	R CANDELAS
	RICHARD SWOPE
	SAHILA VAZQUEZ
	YONG KIM
	YOUNGSUNG KIM
7602	JONG PARK
	MARIA BRAVO
	YONG CHOI
7604	JOSE LLIZO
7612	CARLOS SALAZAR
7624	ANTONIO DIAZ
7632	SARIT CHAND
7640	ROBERT SHAFFER
7644	OLGA REVELO
7646	CESAR MAGANA
7648	SAM NOVICK
7650	ARMANDO ZAVALA
7652	RODRIGO GAMINO
7654	MARVIN HERNANDEZ
7714	JOANN WILLIAMS
	STEPHEN KANG

STEWART AND GRAY RD 1999 (Cont'd)

7716	PAUL LEE
	RAUL RUVALCABA
7718	BRENT CANNADY
	BRIAN CHAMBERS
	ROGER MILLER
7722	JERMAINE BARNES
7730	LEYVERTH RODRIGUEZ
7803	ESTELA BAUTISTA
7810	ALEXIS TIPAN
	BLANCA FUENTES
	DOMANIC ABERY
	GABRIEL AGUAYO
	JOHNNY LOPEZ
	MARIO HERRERA
7813	LEUTERIO MACAPAGAL
7815	TED THIA
7817	KONTHEA KANG
7818	DAVID GUIZADO
	EMAD ABDELAAL
	ENRIQUE MARTINEZ
	GARY MOORE
	JANET BLOUNT
	LILIANA GONZALEZ
	MARIO BONILLA
	MARISOL HERNANDEZ
	ORLANDO LLAMPALLAS
	WILLIAMS WELTER
7819	MASOUD MIKHAIL
7821	JOVITA SANCHEZ
7823	JENNY FIGUEROA
	OCCUPANT UNKNOWN
7829	ADRIANA VALADEZ
	DANIEL ENCINA
	DELIA QUINTERO
	EVANGELOS STANITAS
	GERMAN DELGADO
	HANH LEKIM
	HERBERT AQUINO
	IRENE ESTRELLA
	JAVIER ELIZALDE
	OMER SOZEN
	SALLY LONDON
7830	ANDREA ALFARO
	ANITA BLAIR
	CHARLENE MARTINEZ
	CHARLES LEDESMA
	CHRISTINA GONZALES
	CONCEPSION CORRAL
	EFRAIN ZUNIGA
	EMILIANA NAVA

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1999 (Cont'd)

7830	ESTEVAN GINER
	GUILLERMO HERNANDEZ
	GUSTAVO CORTEZ
	JOSE MARTINEZ
	JOSELINE QUINTANILLA
	MARCO POLO APARTMENTS
	RANAE MANOMAT
	RODOLFO SAENZ
	SHELLI STEPHENSON
	Z RODRIGUEZ
7836	ALMA GARCIA
	BLANCA CALDERA
	DENISE HARRIS
	DIANA SHORTS
	EDGAR VELASQUEZ
	JAIME MAGDALENO
	JESSICA GUTIERREZ
	JUDITH BETHAM
	MICHAEL COZORT
	R RENTERIA
	TYESHA LOVELACE
	V MACIEL
	VICTORIA VELIZ
7841	AMIRA ELHELBAWY
	CLARA MARTINEZ
	ERIKA MALADY
	JOHN HALE
	JULIO VELASQUEZ
	SREYMUCH YOS
	VICTOR GOMEZ
7845	BRENDA CHAVEZ
	CARLOS PLEITES
	CLARIBEL ACKERS
	E MACIAS
	GABRIELA HERNANDEZ
	GLORIA OLIVERA
	JESSICA PFEIL
	MARK CAILLIER
	MARLOW AUZENNE
	MARY RAFOLS
	MELY MENJIVAR
	MERCEDES SALAZAR
	MONICA BARBOSA
	NICOLE MQAYES
	NOEMI CARVIEL
	SAHARA APARTMENTS
	SALVADOR MIRANDA
	SHUCHEN CHIEN
	THO NGUYEN
	ULVIO SANCLEMENTE

STEWART AND GRAY RD 1999 (Cont'd)

7846	MARISOL PAPIAS
	OCCUPANT UNKNOWN
7848	JOSE LANFRANCO
	SHERRY MARTINEZ
7852	IZABELA PIKSA
	OCCUPANT UNKNOWN
7860	BEN HUSBANDS
	BOBBY HUITT
	D JANG
	DEBRA AVILA
	EDGAR ROMERO
	JOSE CAMPO
	JUAN PURIZACA
	LUZ VERA
	MARIA MURILLO
	MICHAEL TRACEY
7861	BLANCA ARRIOLA
	ELSA ROMERO
	FANNY CESNEROS
	JAMES VALLE
	JORGE RODRIGUEZ
	JOSE NAVARRO
	JUDY CHAVEZ
	LUIS BARRIOS
	LUPE MORGAN
	M PEREZ
	MAINUL AHSAN
	NEAL NEGRONE
	PEDRO HERNANDEZ
	RENE ROBERSON
	TRACY HILL
7862	PAUL KIM
7864	KEVIN CHONG
7866	KIRK SEO
7868	JOSE DELCAMPO
	KI KU
	KYONG IN
7870	CLAUDIO MONGE
	OCCUPANT UNKNOWN
7871	DEVIN CARLTON
	DIAB DIAB-SR
	JOSHUA SANCHEZ
	LENIKA BELL
	OLIVERIO GARCIA
	ROSA BARROS
7874	GENARO SALAZAR
7876	SE KIM
7878	GREGORY OROZCO
7880	BRIDGETT RODGERS
7900	ERICA ARMENTA

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1999 (Cont'd)

7901	ADEL GIRGIS
	AGUSTIN ROMERO
	BENITO REYES
	GANNIGA PEUMSANG
	JESUS CHAVEZ
	JESUS GARCIA
	JOAQUIN MORENO
	JORGE LOPEZ
	OSWALDO YOCUPICIO
	VERONICA BARRERA
	VIRGINIA MAYA
	YULIANA MARQUEZ
7902	FOWLER ETHYL
	MERCEDES HERNANDEZ
7906	OCCUPANT UNKNOWN
7909	AURELIA VAZQUEZ
	E GONZALEZ
	HJORGE ANCHETTA
	HYE KANG
	ISRAEL RODRIGUEZ
	JENNIFER ANDERSON
	PETRI HURTADO
	SURINDER VIRK
	VIVIANA SPIRU
	WELINTHON MORALES
7910	MARIANO BONILLA
7912	CARLOS CASANOVA
	CARMEN FABIAN
	MELINDA MUNOZ
	OCCUPANT UNKNOWN
7919	ALMA AGUIRRE
	GIL TINIO
	JULIA CARLOS
	SAL ZAPATERO
	VERONICA GARCIA
	VINCENT GONZALES
7922	ANDREW GARCIA
	ANITA IGLESIAS
	BRENDA MENDOZA
	DANETTA BALDWIN
	DIMITRI LUCAS
	ERNESTO CONTRERAS
	ERNESTO PONCRERAS
	H MARIA
	LAZARO MARTINEZ
	LIA LOPEZ
	LUIS VELA
	MARIA PUENTES
	ROBERT LUCAS
	SAMUEL FOOR

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1999 (Cont'd)

7922	SAUL SALGADO
	THOMAS BANKS
	TONYA HARPER
7924	MANUEL GODOY
7925	EMILIO RIOS
	FABIOLA PADILLA
	JASWINDER SINGH
	JESSIKA RODRIGUEZ
	MONICA GRANADOS
	SILVIA SANCHEZ
7928	VASILE TIPLEA
7929	ASUNCION GUERRA
	BENIGNO BOVEDA
	CATHY LEMUS
	ERICA RUIZ
	JOSE HERNANDEZ
	MARIO BOGRAN
	MERCEDES SARAVIA
	MIRNA YBARRA
	SCHERRIE LEMON
	TOMASA BARRIOS
	YOUSEFALI ABKHREH
7930	JULI MALL
	MALL GENE N
7932	CARLOS VALDEZ
7936	LUIS ROMERO
7940	HECTOR MOLINA
	WILENE SCHLEHNER
7941	ABBAS SALEH
	ARDRA SCHELLO
	JOSE CHAVARIN
	JOSUE MARCUS
	MARY DENAVA
	SHIRLEY PHILPOT
7944	ANDY GARCIA
	ERIKA SANCHEZ
	GABRIEL CHERBONY
	J PANTOA
	PATRICK ZSCHOCHE
	SAMUEL ROTHMAN
7945	CHARLES COX
	OCCUPANT UNKNOWN
7947	GERARDO TINOCO
	OCCUPANT UNKNOWN
7951	GUSTAVO OROZCO
	YOUNGTAE KIM
7952	CHUN HAN
	DAVID AREBALO
	HYONG KIM
	LATISHA BROOKS

STEWART AND GRAY RD 1999 (Cont'd)

7952	LISA PADILLA
	MARIA VAZQUEZ
7953	HYEOUNG KIM
7955	VIRGINIA KIM
7957	CHARMAINE WILLIAMS
7959	CHRISTIAN CHOI
7961	JHON KIM
7965	RAFAEL YERA
7967	GERARDO MORALES
7969	N IKEDA
7971	WOO KIM
7973	TERAYLAN HOLLINGSWORTH
7975	ANGELICA ANGUIANO
7977	ILIANA HERNANDEZ
8011	HAIR ESSENTIALS
8015	A B C DONUTS
8018	VIDEO MAX
8019	PACIFIC BURGERS
8020	STAR ONE HOUR CLEANERS
8026	CICERONES PIZZA & ITALIAN FOOD
8028	CAPRI SHOE REPAIR
8029	ANNA MENDEZ
	BENJAMIN SMITH
	GEORGE ABDELNOUR
	HECTOR LOPEZ
	HENRY GAMBOA
	JAMES DOSTALEK
	NORMA DEVELAS
	NORMAN WYATT
8030	JUST CARLY INCORPORATED
	PARCEL SERVICE PLUS
8032	DAVES BARBER SHOP
8034	MONIQUE HAIR STYLISTS
8037	BRIGETTE SOCORRO
	DONALD BEAUDRI
	ELSA RUELAS
	ERVIN MARROQUIN
	FREDDY ORTEGA
	GARY GIBBS
	HENRY DIAZ
	LEONEL LEYVA
	MARIA SEGUERA
	RAMON MORALES
8040	LUIS CORDOVA
	MARCO GARCIA
	MELISSA BETANCOURT
	OLIVER CHAMP
	ROSA AGUILAR
8101	ARTRANESE BROWN
	DANIEL DOBENS

STEWART AND GRAY RD 1999 (Cont'd)

8101	E MARTINEZ
	ELIZABETH MONTOYA
	GUSTAVO SERVELLON
	IMELDA MARQUEZ
	JON AIBUEKU
	NADIA FATTALEH
	NARCISO ESPINOZA
	OMAR CABRERA
	TODD FANSHAW
8104	WILLIAM PETERSON
8111	EDWIN SOSA
	LORETTA BARDEN
	RUDY MARTINEZ
	SAM EZELL
	TIFFANY PARSLEY
8112	ANDRES LOPEZ
	ANTHONY TORRES
	JORGE DELACUEVA
	JOSEPH MEYER
	JUAN AVILA
	MARIBEL SAUCEDA
	MICHAEL GRAINGER
8115	ARACELY HERRERA
	DANILO GAGO
	FRANCES VERA
	FRANCISCO SANCHEZ
	JAMES DURONSLET
	JASON WILSON
	JORG MARTINEZ
	JUANA LOPEZ
	KANG KEE WON
	KIM PEREZ
	M FARIAS
	M HOOKER
	MARCELINA VALDEZ
	SONIA BARAHONA
	ZONA FANNIN
8116	EFRAIN GODOY
	GRAY LEWIS
	LIZBETH VIDAURRI
	MASAKO CHAI
	NOEL CALDERON
	RAY GOETZ
	VIOREL MONTEON
8124	CLM COMPANY
	GUSTAVO RODRIGUEZ
	LUCILLE MAURA
8127	ABEL ACOSTA
	ALFREDO DELGADILLO
	BERTHA RODRIGUEZ

STEWART AND GRAY RD 1999 (Cont'd)

8127	DAVID MCFADDEN
	ESPINOZA RAMIREZ
	JOHN PUENTES
	MARIA BARRAGAN
	MARIA LARA
	MARTIN GALLEGOS
	OSCAR RODRIGUEZ
	REBECA GUTIERREZ
	SORIN VARCIAG
8130	ANTHONY GUTIERREZ
	ARTURO GUTIERREZ
	DAVID CANOVA
	RICHARD QUINONES
	ROY BAGLEY
	STEVE WAGNER
	YASMIN LIZAOLA
8131	ANN LOUIE
8135	CECILIA ARIAS
	DAVIS YOUNG
	JAMES MELTON
	JOSE KRUEGA
	MARIANA VELASCO
	RAMON SANCHEZ
8136	FRANCISCO CHAIREZ
	GLENN PALMER
	JONATHAN HANSON
	THELMA GIRON
8141	DONALD COX
	HEATHER SPARLIN
	JAIME TAFOYA
	JOHN BROWN
	JOSE MORA
	JOSE RODRIGUEZ
	KATHE MONJARAZ
	KEN MONTERROSA
	KEVIN REA
	LISA DEGER
	ROBERT CASEY
	SANDRA NASER
8202	PEDRO DIAZ
8207	ARMANDO PARTIDA
	DEANNA PETERSEN
	DOUGLASS HALL
	ERIK DONADO
	EVELYN RAMIREZ
	HENRIETTA HOSPEDALES
	MAGDALE MARTINEZ
	MARGO BRUTON
	MAYRA OJEDA
	NORMANDIE APARTMENTS

STEWART AND GRAY RD 1999 (Cont'd)

8207	OLIVIA ROWLEY
	RONALD DAVENPORT
	SYLVIA CORONA
8213	EDITH BELTRAN
8214	DAISY GALES
8217	MARCOS BELTRAN
	MARK ROSENAO
8219	CARLOS BELTRAN
8224	OCCUPANT UNKNOWN
8227	BYRON MOLINA
8230	OCCUPANT UNKNOWN
	OMAR FRANCO
8235	DUCK MIN
	MIN DUCK GI
	YADER PARRALES
8237	SEUNG SUH
	TOM MACCIOCCHI
	YONG KIM
8239	HYE CHUNG
	HYE KIM
	NAE SHIN
	ROSANNA SCHOENBERG
	SUNG YANG
8241	DAVE NAZAROFF
	OCCUPANT UNKNOWN
8242	ROBERT LOVEN
8248	LINO RODRIGUEZ
8249	ANDREW SCHMIDT
8254	TC WATSON
8255	JAVIER RODRIGUEZ
	OCCUPANT UNKNOWN
8258	MARISOL LOPEZ
8259	MICHAEL CHONG
8264	LUIS GUZMAN
	MARICELA PEREZ
8267	ISIS GRACIANO
8270	LUIS HERNANDEZ
8276	LUIS GUTIERREZ
8300	CB REAL ESTATE INCORPORATED
	CB REAL ESTATE INCORPORATED COMMERCIAL INVESTMENT DIVISON
	M B S INCOME TAX SERVICE
8306	HOME LOANS OF AMERICA
8307	DANIEL SANCHEZ
8308	DOLLAR VIDEO
8310	PAPA JOES PIZZA
8320	FOUNTAIN SQUARE LIQUOR
8321	ROSA SEPULVEDA
8325	MARIA HURTADO
8326	OCCUPANT UNKNOWN
	STEWARTS CLEANERS

STEWART AND GRAY RD 1999 (Cont'd)

8328 MR STEVES HAIRSTYLIST
STEVES HAIRSTYLIST FOR MEN
8330 SIZZLING THAI KITCHEN
8334 B LOPEZ
8336 MARTHA CRUZ
8338 ALFREDO QUESADA
JOHN YI
8340 OCCUPANT UNKNOWN
ROBERT WARNER
8345 CESAR GUTIERREZ
8348 JUAN MOREIRA
8350 MANUEL CESPEDES
MONICA VIVAS
8351 STAR FESTINI
8400 EMMA WALKER
WILLIE MCFEE
8403 DAGOBERTO GIRON
OCCUPANT UNKNOWN
8406 OCCUPANT UNKNOWN
8408 PATRICIA YASUKOCHI
8409 MITTIE BRYANT
8410 GREG MACIAS
OCCUPANT UNKNOWN
8413 MARIA BARBOZA
8416 FRANK GIORDANO
OCCUPANT UNKNOWN
8417 EFRAIM FERRER
8418 JAIME AVILA
8419 FRANCISCA GUZMAN
8420 OCCUPANT UNKNOWN
8422 GEORGE RODRIGUEZ
8423 BERTHA MALDONADO
OCCUPANT UNKNOWN
8424 RODOLFO MIRANDA
8427 JUAN AVILA
8432 JOVANNA PINTO
OCCUPANT UNKNOWN
8434 JORGE LOPEZ
OCCUPANT UNKNOWN
8436 JAMES HUGHES
8437 ART MACIAS
LISSETTE GONZALEZ
8439 GUADALUPE RENTERIA
8445 DOUGLAS SALAZAR
8446 MARIELENA RUBIO
8450 CYNTHIA LEON
8501 LUIS FLORES
SALVADOR VAZQUEZ
8502 BERNARDO ENCINAS
8505 LUIS ROSALES

STEWART AND GRAY RD 1999 (Cont'd)

8506 LAURENCE HOELSCHER
8508 GERALD KLINE
8510 BEVERLY JOHNSON
8512 RAQUEL HARMON
8513 N YOUNG
OCCUPANT UNKNOWN
RICARDO VILLESCAS
8514 DAVID LOPEZ
8516 CARLA PINEDA
8517 OCCUPANT UNKNOWN
8518 MARIA GARCES
8520 JERRY PETERSON
8521 EILEEN ELLIS
8522 IRAN PULIDO
8524 GLEN ROBERTS
MARCOS PEREZ
RYAN GRENFELL
8525 CORA GATDULA
8526 ERNESTO BARRERA
KATHLEEN DEMARS
8532 JUAN ESCOBAR
SALWA GHADDAR
8533 MIRNA MOLINA
8535 MARY GONZALES
8536 ROBERT DUNCAN
ROLANDO RODRIGUEZ
8539 FRED ROSHAN
8542 JORGE ZEPEDA
8546 GLADYS WEYANT
OCCUPANT UNKNOWN
8550 CAROLINA RODRIGUEZ
OCCUPANT UNKNOWN
8551 WILLIAM LEW
8552 OCCUPANT UNKNOWN
VERONICA MINERO
8558 ELIZABETH ESQIVEL
8560 ROBERTO CAVAZOS
8600 CLAUDIA MENDOZA
8609 RAFAEL SANDOVAL
8612 EDMUNDO MENDIETA
8615 MARIO VILLAGRAN
8621 LOUISE PAYAN
8622 JUAN MEJIA
8627 ANGELA HOLLEN
8628 IVAN LOPEZ
8632 GUADALU RODRIGUEZ
MISAEL SOTO
8638 C HERRON
LUZ MARCIAS
8643 OCCUPANT UNKNOWN

STEWART AND GRAY RD 1999 (Cont'd)

8643 RAMIRO DELUCAS
8644 KIMBERLY CASTRO
8650 MELISSA LUNA
8654 OCCUPANT UNKNOWN
TERESO DELGADILLO
8657 MIGUEL CARRILLO
8663 ALMA CEJA
8702 JUAN DELIRA
8703 BELTEL TRADING COMPANY
OCCUPANT UNKNOWN
8706 EVANGELINA VAZQUEZ
OCCUPANT UNKNOWN
8707 SOCORRO NARANJO
8708 MIGUEL SANCHEZ
8709 JOSE SANCHEZ
OCCUPANT UNKNOWN
8710 ISMAEL GARCIA
8712 YOLANDA SALAZAR
8713 LARRY CARR
RICARDO MENDEZ
8718 DIANA PAZ
8719 HECTOR RODRIGUEZ
SALLY JUAREZ
8721 JUAN BORRELL
JUDITH SEGURA
MARIA AGUILAR
8722 MARIA LEYVA
OCCUPANT UNKNOWN
8723 OCCUPANT UNKNOWN
RICHARD NAVARRETE
8724 LUCIA CALDERON
8725 BEATRIZ FIGUEROA
8726 OSCAR RODRIGUEZ
8729 AMY FRANCO
OCCUPANT UNKNOWN
8730 PRASONG SUTHIPRASERT
8733 CARLOS DUARTE
MYRNA GUTIERREZ
8736 MARIA PANTOJAS
8738 CHRISTA ROBINSON
8739 ROCIO ORNELAS
9119 SEANG SIN
9143 ION BALARIE
9148 ELSA VALDEZ
JUAN BUSTAMANTE
JUANA LOPEZ
MINERVA ESPINOZA
9151 JOHNATHAN RODRIGUEZ
9154 ANTONIE DAVIS
BOYD DECHAUSSE

STEWART AND GRAY RD 1999 (Cont'd)

9154	CARL DELPH
	MARIA BARRETO
	R ESCOBEDO
	ROGER DUNN
	XIAO WU
9157	LISA THOMAS
9160	ARNO HOHN
	EDGAR VILLENAS
	ERIC MOLLE
	MANISH HUMBE
	SAMUEL WILLIAMS
	VILLA DOWNEY
9164	ANA SOLORZANO
	FRANCISCO SANCHEZ
	HELEN DOMINGUEZ
	JOHN ROSALES
	KAREN SALAZAR
	LAZARO PEREZ
	LO XING ZHANG
	LORETTA TYLER
	MARGARITA CARLIN
	YVONNE WISMER
9170	CLAUDIA RODRIGUEZ
	CONSTANTIN ROSENBAUER
	CRAIG ABSHIER
	KYMBERLY HALL
	PEDRO MICHAUS
	PHILLIP RALAYAD
	RODRICK IRVING
	ROGER DUNN
	TIMOTHY WARE
9200	OCCUPANT UNKNOWN
9202	ANDREW MCGUCKI
	MEREDITH OGAWA
	ROGER DUNN
	SCOTT HILTON
	VERONICA ABILA
9203	GUILLERMO MARTINEZ
	OCCUPANT UNKNOWN
9207	RUDY MEYER
9208	CESAR CALDERON
	FRANCES RODRIGUEZ
	IRMA RAMIREZ
	MARK LINO
	RASHIDA WILLIAMS
9211	DUSTIN MOHASCI
9212	MABEL TARAZONA
	ROGELIO CHAVEZ
	SERENA ALDAVA
	SOLEDAD MARTINEZ

STEWART AND GRAY RD 1999 (Cont'd)

9212	YAFUHIKO YAHAMARA
9216	ANA CARDOZA
	ANABERTHA BENAVIDES
	BERTHA VALENZUELA
	GEOVANNI TOLEDO
	GERMAN BRIZUELA
	HERNAN LASSO
	JUAN LOPEZ
	JUAN VASQUEZ
	MOLINA ONTIVEROS
	OSCAR PEREZ
	PEDRO PINEDA
	PEREZ CONTRERAS
9217	ERIK CABREREA
	HAROLD NELSON
	ISMAIL KHOZAHI
9220	DOLORES MENDOZA
	JANET ESTARES
	KARINA VALENZUELA
	NATHAN FOX
	RUBEN CASTILLO
	VERNOICA TRINIDAD
9228	GILBERTO RAMIREZ
	MANUEL FERNANDEZ
	MARIA LARA
	ORTEGA SANCHEZ
	RICARDO PARTIDA
	ROSEMARIE ESCALANTE
	YAHAIRA CASTRO
9229	GIUSEPPA LOMBARDO
	LUISA MORENO
	WILLIAM AGUILAR
9232	TIMOTHY GRAVES
9253	OCTAVIA CRANEY
9255	JOSE LOPEZ
9257	CLAUDIA WATKINS
9301	BRIDGEWATER & ASSOCIATES
	DURAY INCORPORATED
	J F DUNCAN DURAY INDUSTRIES INCORPORATED OFFICE
	OMNI TEMP REFRIGERATION
9333	XTRA LEASE
9355	HYDROQUIP PUMP
9368	BAMBERGER POLYMERS INCORPORATED
	COAST POLYMERS INCORPORATED
9408	LEADWAY PLASTICS INCORPORATED
9420	INTEGRA MARKETING INCORPORATED
9426	PERKINS IRON & FENCE
	SPACE TECHNOLOGY INSTALLATION SERVICES INCORPORATED
9449	DEVILLE FURNITURE CORPORATION
9505	BRECHT MANUFACTURING INCORPORATED

STEWART AND GRAY RD 1999 (Cont'd)

9525 WALLYS FENCE & IRON
9540 GANN PRODUCTS COMPANY INCORPORATED
9600 STAIN STEEL INCORPORATED

Target Street	Cross Street	Source
-	✓	Cole Information Services

HALL RD 1995

9236 AEROJET ORDINANCE CO
9400 HUDD DISTRIBUTION SVC INC

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1995

7117	GRAYSTONE MANOR APARTMENTS
7137	DOWNEY WEST GARDEN APARTMENTS
7152	GLEN COLBY
7354	DONNAS DRY CLEANING & LAUNDRY
7356	GLEN
7364	ANDREAS HAIR FASHIONS
7375	DOWNEY DONUTS & CROISSANTS
7377	DEAN OF VIDEO
7380	EDDIES HAMBURGERS
7381	GINAS HAIR DESIGN
7395	NIKOS PIZZA & DELI
7399	OLD RIVER LIQUORS
7400	7 ELEVEN FOOD STORE
7546	NORD STAR APARTMENTS
7829	MC COLLUM DRAFTING SVC
7845	SAHARA APARTMENTS
7922	BIRCHWOOD APARTMENTS
8011	HAIR ESSENTIALS
8015	ABC DONUTS
8018	VIDEO MAX
8019	PACIFIC BURGERS
8020	STAR ONE HOUR CLEANERS
8022	A APPLIANCE CO OF CALIFORNIA
	LAUNDERLAND
8026	CICERONES PIZZA & ITALIAN
8028	CAPRI SHOE REPAIR
8030	FARMERS VACUUM & SEWING CTR
8032	DAVES BARBER SHOP
8034	MONIQUE HAIR STYLISTS
8124	CLM CO
8136	ADVANCED CUSTOM DETAILING
8207	NORMANDIE APARTMENTS
	STORTS JANITORIAL
8213	AMPERE ELECTRIC
8300	C B REAL ESTATE INC
	MBS & CO
8306	HOME LOANS OF AMERICA
8310	JIMS PIZZA KING
8320	FOUNTAIN SQUARE LIQUOR
8326	CANDYS NAILS & HAIR
8328	MR STEVES HAIRSTYLIST
	STEVES HAIRSTYLIST FOR MEN
8330	SIZZLING THAI KITCHEN
8703	BELTEL TRADING CO
9160	VILLA DOWNEY
9301	DURAY INC
	OMNI TEMP REFRIGERATION
9333	XTRA LEASING INC
9355	HYDROQUIP PUMP
9368	BAMBERGER POLYMERS INC

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART AND GRAY RD 1995 (Cont'd)

9368 COAST POLYMERS INC
9408 LEADWAY PLASTICS INC
9426 INTEGRA MARKETING INC
SPACE TECH INSTALLATION SVC
9505 BRECHT MANUFACTURING INC
9525 J C ARK ANIMAL HOSPITAL
9600 STAIN STEEL INC

Target Street	Cross Street	Source
-	✓	Cole Information Services

HALL RD 1992

9236	AEROJET GENERAL
9350	WESTRN PAC PULP&PPR
9400	HUDD DISTB SV

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART GRAY RD E 1992

7011	ROCKVIEW DAIRIES
7033	BROCHURES ETC
7117	GRAYSTONE MANOR APT
7137	DOWNEY W GRDN APTS
7207	CERTIFIED 1 RFNG CO
7354	DONNAS DRY CLNG
7356	THE GLEN
7364	ANDREAS HAIR FASHNS
7375	DONUTS&MORE
7380	EDDIES HAMBURGERS
7381	GINAS HAIR DESIGN
7399	OLD RIVER JR MART
7400	SEVEN 11 FOOD 16560
7415	SANI FEM CORP
7546	BRIDE&GROOM FLORAL
7810	BRYAN FLOOR COVERNG
7829	MCCOLLUM DRAFTNG SV
7845	SAHARA APTS
7922	AKRIT APPLIANCE
	BIRCHWOOD APTS
7925	PRO SHINE FLOOR
8011	HAIR ESSENTIALS
8015	A B C DONUTS 1
8018	VIDEO MAX
8019	PAC BURGERS
8020	STAR ONE HR CLEANRS
8022	LAUNDERLAND
8026	DOWNEY PIZZA CO
8028	CAPRI SHOE REPAIR
8030	FARMERS VACUUM
8032	SALS HAIR SALOON
8034	MONIQUE HAIR STYLST
8124	C L M COMPANY
8135	YOUNGS BUILDING MNT
8207	NORMANDIE APTS
8300	C B REAL ESTATE INC
	M B S&CO
8306	G&M
8310	JIMS PIZZA KING
8320	FOUNTAIN SQUARE LQR
8326	MICOLS BEAUTY SALON
8328	HAIR IT IS
	STEVES HRSTYLST MEN
8330	THAI PLACE
9160	VILLA DOWNEY
9301	BRIDGEWATER&ASSOCTS
	DURAY INC
	OMNI TEMP REFRIG
9333	A J F LEASING
9355	HYDROQUIP PUMP

Target Street	Cross Street	Source
✓	-	Cole Information Services

STEWART GRAY RD E 1992 (Cont'd)

9368	COAST POLYMERS INC
9408	LEADWAY PLASTICS
9426	BOMAN INDUSTRIES
9449	DEVILLE FRNTR CORP
9505	BRECHT MFG INC
9525	STEWART&GRAY HSPTL
9540	GANN PRODUCTS CO
9600	STAIN STEEL INC

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

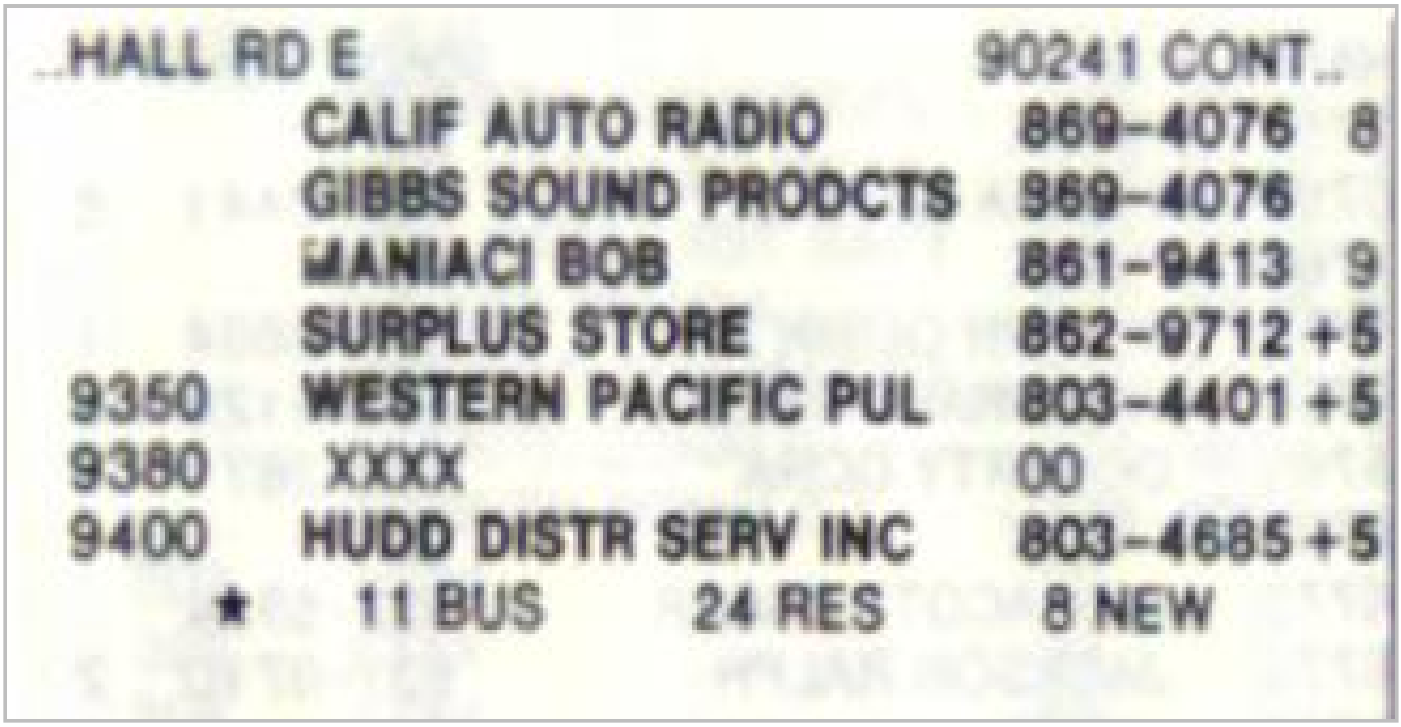
HALL RD 1985

HALL RD E 90241
DOWNEY

9049	XXXX	00	
9057	XXXX	00	
9061	BRISCOE C C	861-9351	1
9067	XXXX	00	
9070	LAWSON A C	923-1997	
9071	XXXX	00	
9101	XXXX	00	
9105	PARISH CLINTON H	869-5793	
9110	FERIA MANUEL	861-7424	9
	LEE SUNG CHAN	861-9546	4
	MITCHELL L	861-7644	+5
	SLESSOR PHILLIP	923-1534	3
9113	XXXX	00	
9116	THOMPSON JACQUIE	862-1707	+5
	WILSON PARKER	862-6400	+5
9117	XXXX	00	
9119	XXXX	00	
9121	HAHN LEO KWANG	923-6304	4
9122	VESHTAJ NILOLL	861-1016	+5
9123	DAVIS K	862-3157	+5
9137	XXXX	00	
9210	XXXX	00	
9214	GAGLIO REYES	862-6279	
9236	AEROJET GENERAL	923-7511	
9300	BOMAN IND GIBBS	869-4076	2
	BOMAN INDUSTRIES	869-4041	8
	C A R BRANDS INC	869-4041	
	CALIF AUTO RADIO	869-4041	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

HALL RD 1985



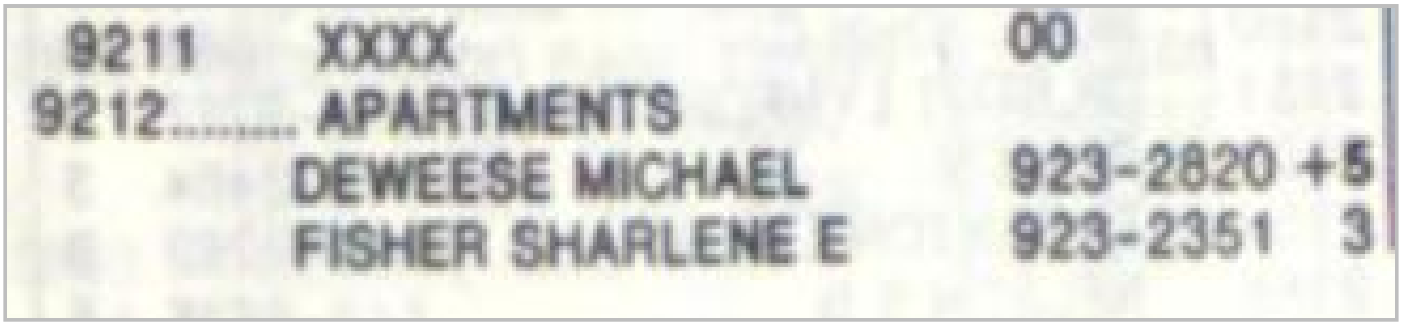
..HALL RD E 90241 CONT..

	CALIF AUTO RADIO	869-4076 8
	GIBBS SOUND PRODCTS	969-4076
	MANIACI BOB	861-9413 9
	SURPLUS STORE	862-9712 +5
9350	WESTERN PACIFIC PUL	803-4401 +5
9380	XXXX	00
9400	HUDD DISTR SERV INC	803-4685 +5

★ 11 BUS 24 RES 8 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

STEWART AND GRAY RD 1985



Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

STEWART AND GRAY RD 1985

..STEWART&GRAY RD E		90241 CONT..	
	PEARSON FELIX	869-6797	7
	PESICE RICHARD	861-3435	+5
	RICH PATRICK J	923-7663	+5
	STEINFELDT HARRY	869-1957	1
	STEINFELDT N D	862-5890	9
9212.....			
9216.....	APARTMENTS		
	DRAPER THOS A	862-2939	3
	GREENHAW ESTHER	869-9887	1
	HOLMES DEAN	862-2543	+5
	MCCRAE HARRIET	869-5868	6
	OROZCO JUAN A	862-7063	+5
	WILEY WILBUR	923-9973	2
9216.....			
9217	HERBOLD CARENN	869-9893	4
9220.....	VILLA SORRENTO APTS		
	CODD S	869-5268	3
	COOPER JERREL	869-5478	1
	DAGOSTA MARK	861-9807	+5
	SMITH WM Y	923-4236	+5
9220.....			
9228	HYNES ROSENA J	923-0230	+5
	RAMIREZ MARYLIN I	862-4188	+5
9229	REHN HAROLD K	861-2830	4
9301	DURAY INC	862-4269	8
	IMPERIAL INSTLLTN	923-9667	0
9303	XXXX	00	
9333	FLEXI VAN TRAILERS	862-6502	4
9333½	CRAIG ROBT CORP	869-8164	+5
9335	BRIDGEWATER ASSOC	923-0941	+5
9355	COCHRAN C H	862-5320	
9363	XXXX	00	
9368	PLASTIC MOLDED PROD	803-3307	3
9375	XXXX	00	
9379	XXXX	00	
9408	XXXX	00	
9426	XXXX	00	
9449	PARKVW FURN MFG CO	803-4674	+5
9505	BRECHT MFG INC	803-4383	3
9525	ANIMAL BIRTH CONTRL	861-9734	4
	DAY&NITE ANIMAL HSP	861-9734	4
	EMERGENCY ANML CLNC	861-9734	3
9527	GLASS ROBT	923-4420	4
	VEDSTED CTTG RNTLS	861-5194	6

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

HALL RD 1980

HALL RD 90241 DOWNEY

9049	XXXX	00	
9057	XXXX	00	
9061	BRISCOE C C	862-6861	
9067	XXXX	00	
9070	LAWSON A C	923-1997	
9071	KOCH JOHN F	862-3125	
9101	PARK SANGCHUL	869-9853	+0
9103	XXXX	00	
9105	PARISH CLINTON H	869-5793	
9110	DAVEY J M	923-2320	9
	FERIA MANUEL	861-7424	9
	STINSON NETA	869-5917	+0
9111½	WINCHESTER P	861-1986	8
9113	RAVENCRAFT NORMA	861-5189	+0
9117	XXXX	00	
9119	SNYDER JACK	862-4132	+0
9121	KOMARA ROBERT	869-1432	+0
9122	FISHER W A	861-2046	2
9123	DAVIS RANDELL K	923-1897	8
9137	XXXX	00	
9210	XXXX	00	
9214	GAGLIO REYES	862-6279	
9236 *	**AEROJET ORDNNCE&MFG**	**923-7511**	5
9300 *	**BOMAN INDUSTRIES**	**869-4041**	8
*	**C A R BRANDS INC**	**869-4041**	
*	**CALIF AUTO RADIO**	**869-4041**	4
*	**CALIF AUTO RADIO**	**869-4076**	8
*	**GIBBS SOUND PRODCTS**	**869-4076**	3
	MANIACI BOB	861-9413	9
9380	XXXX	00	
*	6 BUS 24 RES	5 NEW	

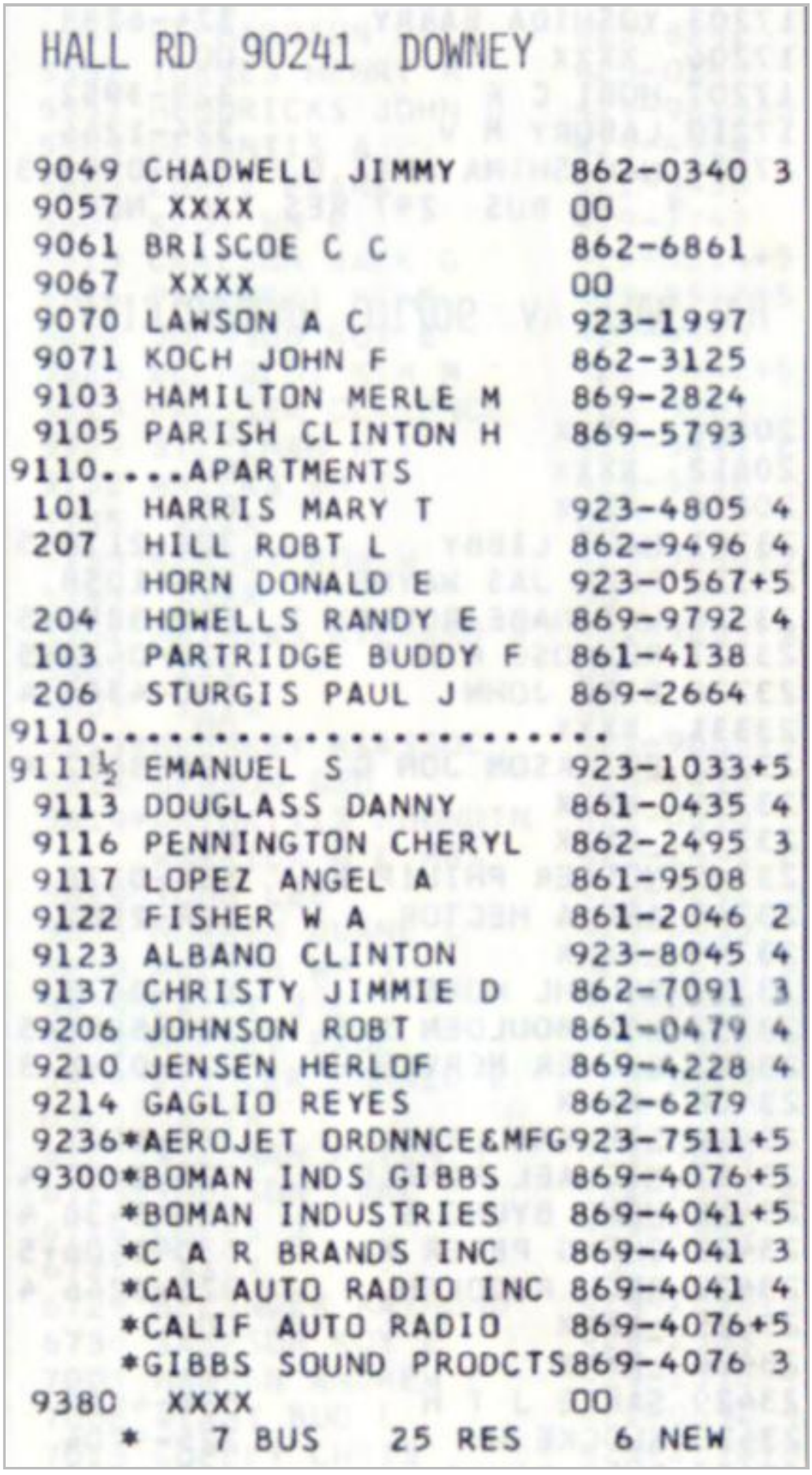
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

STEWART AND GRAY RD 1980

9232	XXXX	00	
9251	WALKER CLINT	923-0208	9
9253	XXXX	00	
9255	XXXX	00	
9257	DARIO BILL	869-0820	+0
9258	REIDHAMMER C	862-6871	9
9301*	DURAY INC	862-4269	8
*	IMPERIAL INSTLLTN	923-9667	+0
9303*	ALPINE ANIMAL CNTRS	923-7113	+0
9333*	COX TRUCKING	862-8626	+0
*	COX TRUCKING CO	923-9090	+0
9355	COCHRAN C H	862-5320	2
9363*	ALL WESTRN PALLET	862-1196	3
9368*	PLASTIC MOLDED PROD	869-1505	3
9375*	BOWMAN PLASTICS	862-1511	2
*	HUBBARD CARPETS	923-3397	8
9379	XXXX	00	
9408	XXXX	00	
9426*	BUDGET INSULATION	869-1031	9
9505*	BRECHT MFG INC	861-1237	3
9525*	EMERGENCY VET CLNC	869-0951	4
	SHROCK JAY-DVM	862-2764	8
9527	BARBER LAWRENCE JR	869-3833	6
*	VEDSTED CTTG RNTLS	861-5194	6
9527½	DRISCOLL LORRAIN	923-8376	6
9529	MARTINEZ CARMEN	869-0592	+0
9529½	TELLEZ THOS	869-3194	6

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

HALL RD 1975

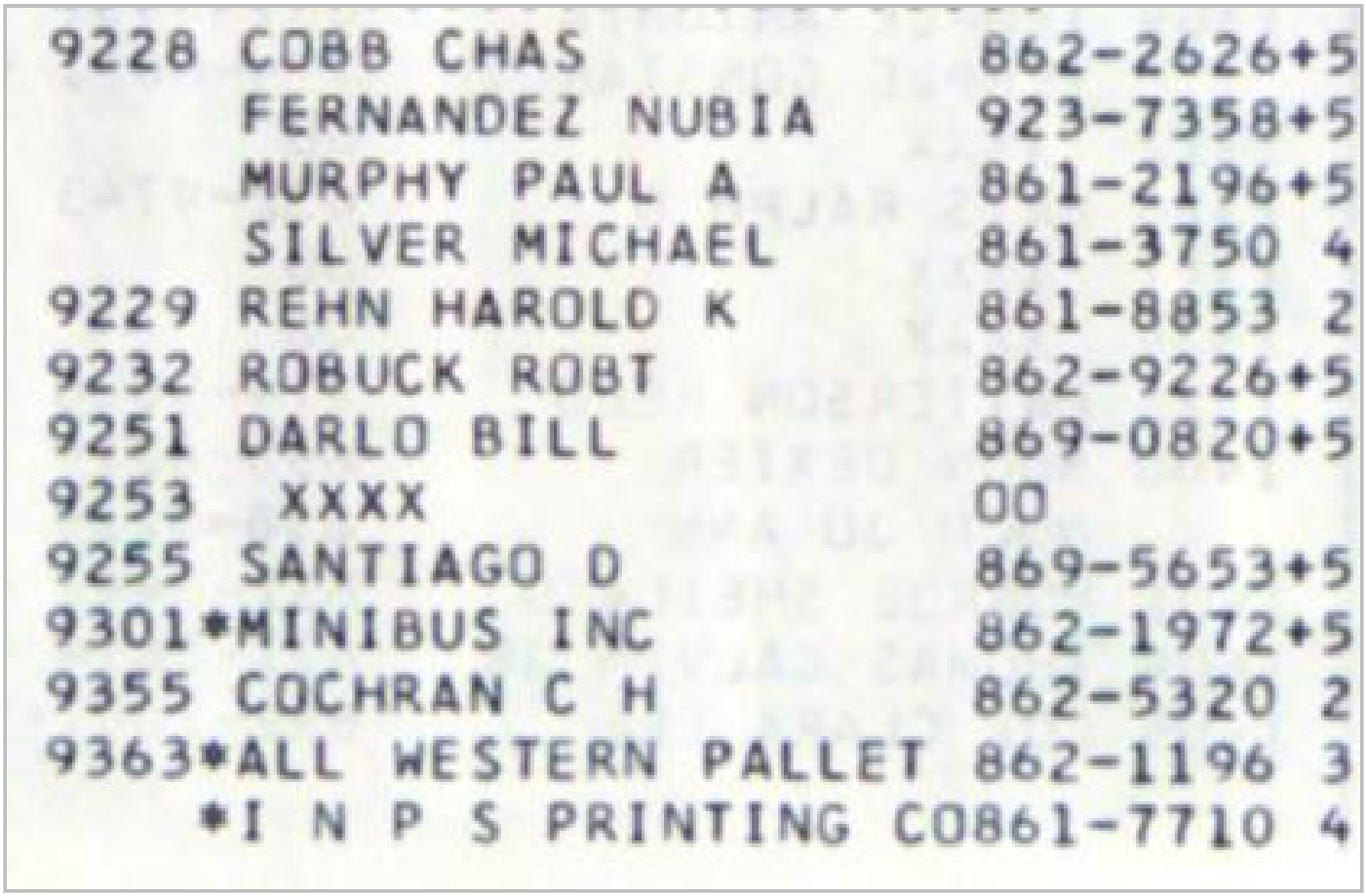


HALL RD 90241 DOWNEY

9049	CHADWELL JIMMY	862-0340 3
9057	XXXX	OO
9061	BRISCOE C C	862-6861
9067	XXXX	OO
9070	LAWSON A C	923-1997
9071	KOCH JOHN F	862-3125
9103	HAMILTON MERLE M	869-2824
9105	PARISH CLINTON H	869-5793
9110	....APARTMENTS	
101	HARRIS MARY T	923-4805 4
207	HILL ROBT L	862-9496 4
	HORN DONALD E	923-0567+5
204	HOWELLS RANDY E	869-9792 4
103	PARTRIDGE BUDDY F	861-4138
206	STURGIS PAUL J	869-2664
9110	.....	
9111½	EMANUEL S	923-1033+5
9113	DOUGLASS DANNY	861-0435 4
9116	PENNINGTON CHERYL	862-2495 3
9117	LOPEZ ANGEL A	861-9508
9122	FISHER W A	861-2046 2
9123	ALBANO CLINTON	923-8045 4
9137	CHRISTY JIMMIE D	862-7091 3
9206	JOHNSON ROBT	861-0479 4
9210	JENSEN HERLOF	869-4228 4
9214	GAGLIO REYES	862-6279
9236	*AEROJET ORDNNCE&MFG	923-7511+5
9300	*BOMAN INDS GIBBS	869-4076+5
	*BOMAN INDUSTRIES	869-4041+5
	*C A R BRANDS INC	869-4041 3
	*CAL AUTO RADIO INC	869-4041 4
	*CALIF AUTO RADIO	869-4076+5
	*GIBBS SOUND PRODCTS	869-4076 3
9380	XXXX	OO
	* 7 BUS 25 RES 6 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

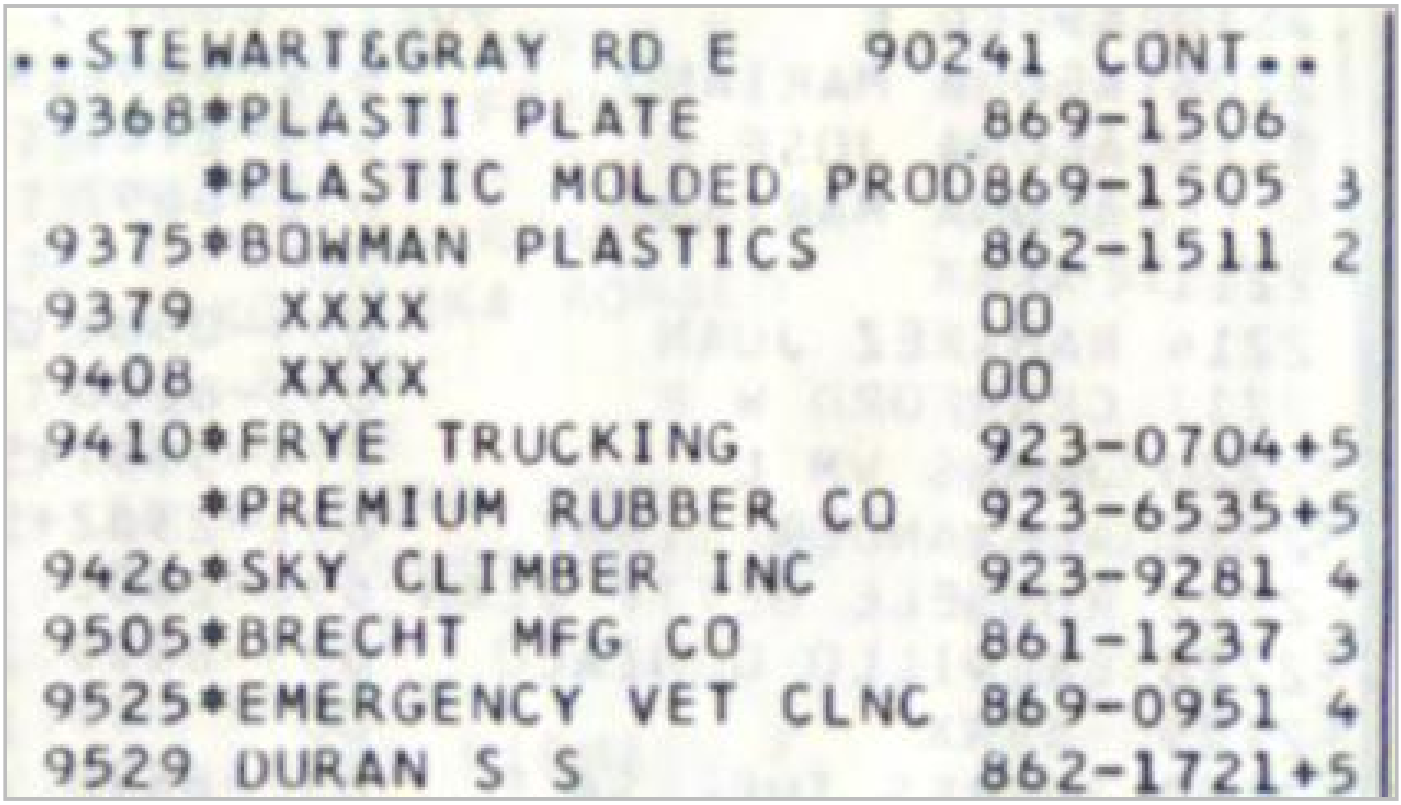
STEWART AND GRAY RD 1975



```
9228 COBB CHAS                  862-2626+5
     FERNANDEZ NUBIA            923-7358+5
     MURPHY PAUL A              861-2196+5
     SILVER MICHAEL             861-3750 4
9229 REHN HAROLD K              861-8853 2
9232 ROBUCK ROBT                862-9226+5
9251 DARLO BILL                 869-0820+5
9253  XXXX                      OO
9255 SANTIAGO D                 869-5653+5
9301*MINIBUS INC                862-1972+5
9355 COCHRAN C H                862-5320 2
9363*ALL WESTERN PALLET          862-1196 3
    *I N P S PRINTING CO        861-7710 4
```

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

STEWART AND GRAY RD 1975



..STEWART&GRAY RD E 90241 CONT..
9368*PLASTI PLATE 869-1506
*PLASTIC MOLDED PROD 869-1505 3
9375*BOWMAN PLASTICS 862-1511 2
9379 XXXX OO
9408 XXXX OO
9410*FRYE TRUCKING 923-0704+5
*PREMIUM RUBBER CO 923-6535+5
9426*SKY CLIMBER INC 923-9281 4
9505*BRECHT MFG CO 861-1237 3
9525*EMERGENCY VET CLNC 869-0951 4
9529 DURAN S S 862-1721+5

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

HALL RD 1971

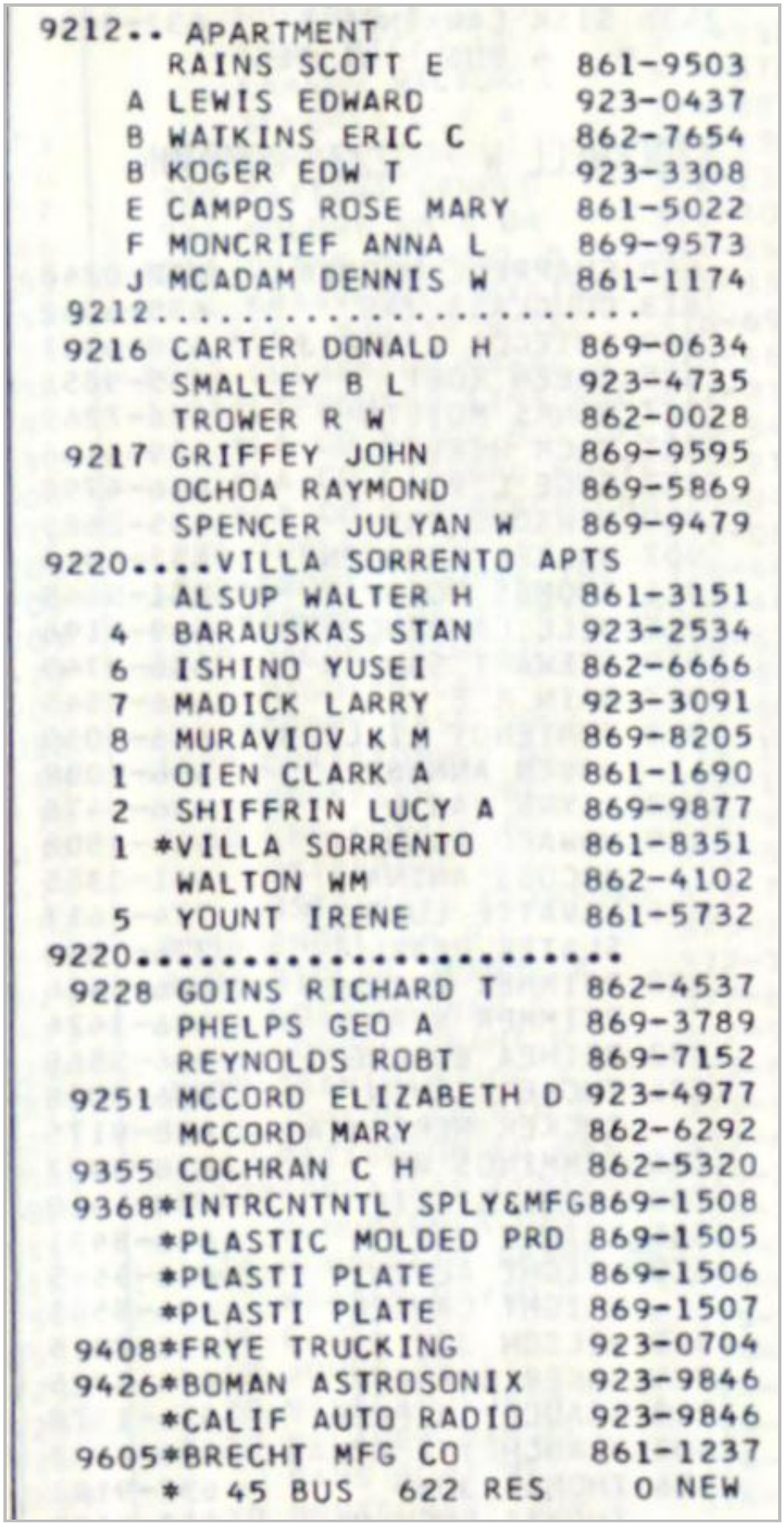
HALL RD 90241 DOWNEY

9049	CHENEY DONALD	861-5882
9057	GORRIS MICHAEL F	861-7602
9061	BRISCOE C C	862-6861
9070	LAWSON A C	923-1997
9071	KOCH JOHN F	862-3125
9103	HAMILTON MERLE M	869-2824
9105	PARISH CLINTON H	869-5793
9110	....APARTMENTS	
101	LOUNSBURY ROBT	862-2852
103	PARTRIDGE BUDDY F	861-4138
	PIERCE REED	869-4393
102	RUPPLE TERRY	923-0244
206	STURGIS PAUL J	869-2664
9110	.....	
9111	BOCK EVA F	862-6101
9111½	THOMPSON GERRY	923-5844
9113	LOVELADY L L	861-5381
9117	LOPEZ ANGEL A	861-9508
9122	FISCHER W A	861-2046
9123	MUHLSTEIN MICK	862-6073
9206	LEITNER DENNIS P	861-6991
9210	SENSE EDGAR H	861-1094
9214	GAGLIO REYES	862-6279
9236	*AEROJET GEN ORDNCE	923-7511

* 1 BUS 21 RES

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

STEWART AND GRAY RD 1971



```
9212.. APARTMENT
       RAINS SCOTT E          861-9503
     A LEWIS EDWARD           923-0437
     B WATKINS ERIC C         862-7654
     B KOGER EDW T            923-3308
     E CAMPOS ROSE MARY       861-5022
     F MONCRIEF ANNA L        869-9573
     J MCADAM DENNIS W        861-1174
  9212.........................
  9216 CARTER DONALD H        869-0634
       SMALLEY B L            923-4735
       TROWER R W             862-0028
  9217 GRIFFEY JOHN           869-9595
       OCHOA RAYMOND          869-5869
       SPENCER JULYAN W       869-9479
9220....VILLA SORRENTO APTS
       ALSUP WALTER H         861-3151
     4 BARAUSKAS STAN         923-2534
     6 ISHINO YUSEI           862-6666
     7 MADICK LARRY           923-3091
     8 MURAVIOV K M           869-8205
     1 OIEN CLARK A           861-1690
     2 SHIFFRIN LUCY A        869-9877
     1 *VILLA SORRENTO        861-8351
       WALTON WM              862-4102
     5 YOUNT IRENE            861-5732
9220.........................
  9228 GOINS RICHARD T        862-4537
       PHELPS GEO A           869-3789
       REYNOLDS ROBT          869-7152
  9251 MCCORD ELIZABETH D     923-4977
       MCCORD MARY            862-6292
  9355 COCHRAN C H            862-5320
  9368*INTRCNTNTL SPLY&MFG    869-1508
       *PLASTIC MOLDED PRD    869-1505
       *PLASTI PLATE          869-1506
       *PLASTI PLATE          869-1507
  9408*FRYE TRUCKING          923-0704
  9426*BOMAN ASTROSONIX       923-9846
       *CALIF AUTO RADIO      923-9846
  9605*BRECHT MFG CO          861-1237
       *  45 BUS  622 RES     0 NEW
```

9300, 9350 and 9400 Hall Road

9301, 9333 and 9399 Stewart & Gray Road

Downey, CA 90241

Inquiry Number: 4816690.4

December 29, 2016

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

12/29/16

Site Name:

9300, 9350 and 9400 Hall Roa
9301, 9333 and 9399 Stewart &
Downey, CA 90241
EDR Inquiry # 4816690.4

Client Name:

SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA 90806
Contact: Kim Braun

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by SCS Engineers were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: 01216368.00

Coordinates:

Latitude:	33.929369 33° 55' 46" North
Longitude:	-118.119214 -118° 7' 9" West
UTM Zone:	Zone 11 North
UTM X Meters:	396555.05
UTM Y Meters:	3754888.59
Elevation:	110.00' above sea level

Maps Provided:

2012	1936
1981	1925
1972	1923
1964, 1965	1902
1951	1899
1949	1896
1943	
1942	

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

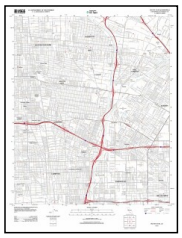
Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

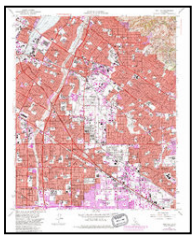


South Gate
2012
7.5-minute, 24000

Whittier
2012
7.5-minute, 24000

1981 Source Sheets

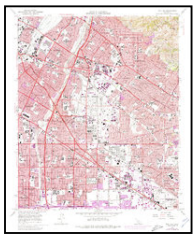
South Gate
1981
7.5-minute, 24000
Photo Revised 1981
Aerial Photo Revised 1978



Whittier
1981
7.5-minute, 24000
Photo Revised 1981
Aerial Photo Revised 1978

1972 Source Sheets

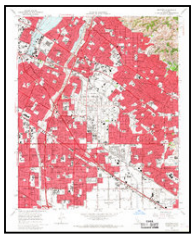
South Gate
1972
7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972



Whittier
1972
7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972

1964, 1965 Source Sheets

South Gate
1964
7.5-minute, 24000
Aerial Photo Revised 1963



Whittier
1965
7.5-minute, 24000
Aerial Photo Revised 1963
Edited 1949

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1951 Source Sheets

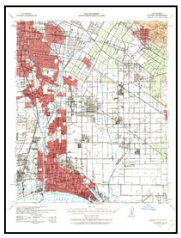
Whittier
1951
7.5-minute, 24000
Aerial Photo Revised 1947

1949 Source Sheets

South Gate
1949
7.5-minute, 24000
Aerial Photo Revised 1947

Whittier
1949
7.5-minute, 24000
Aerial Photo Revised 1947

1943 Source Sheets



Downey
1943
15-minute, 62500
Aerial Photo Revised 1939

1942 Source Sheets

Downey
1942
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1936 Source Sheets

Bell
1936
7.5-minute, 24000
Edited 1932

1925 Source Sheets

Whittier
1925
7.5-minute, 24000

Bell
1925
7.5-minute, 24000

1923 Source Sheets

Bell
1923
7.5-minute, 24000

Whittier
1923
7.5-minute, 24000

1902 Source Sheets

Downey
1902
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1899 Source Sheets

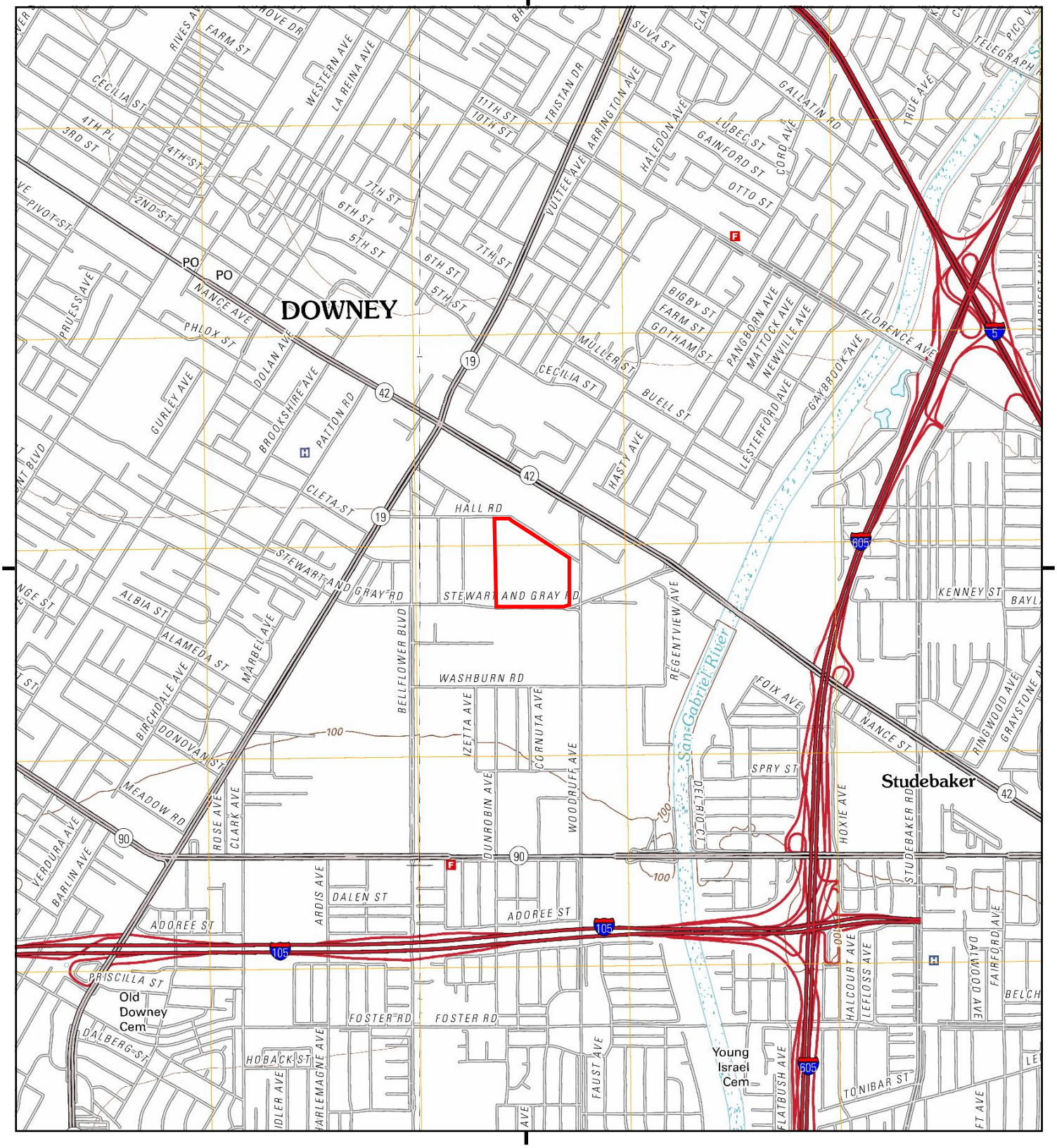
Downey
1899
15-minute, 62500

1896 Source Sheets

Downey
1896
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

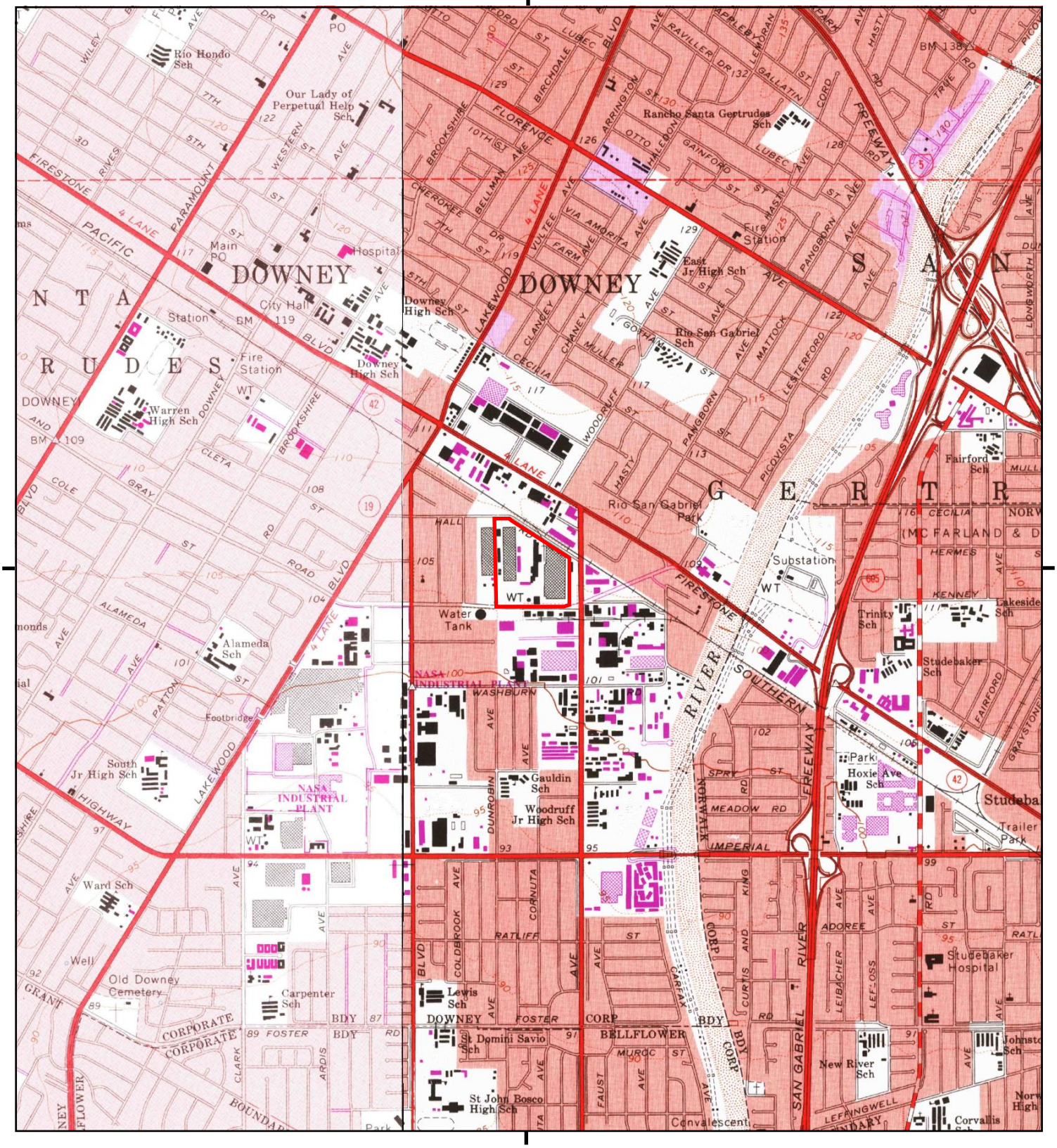
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Whittier, 2012, 7.5-minute
W, South Gate, 2012, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

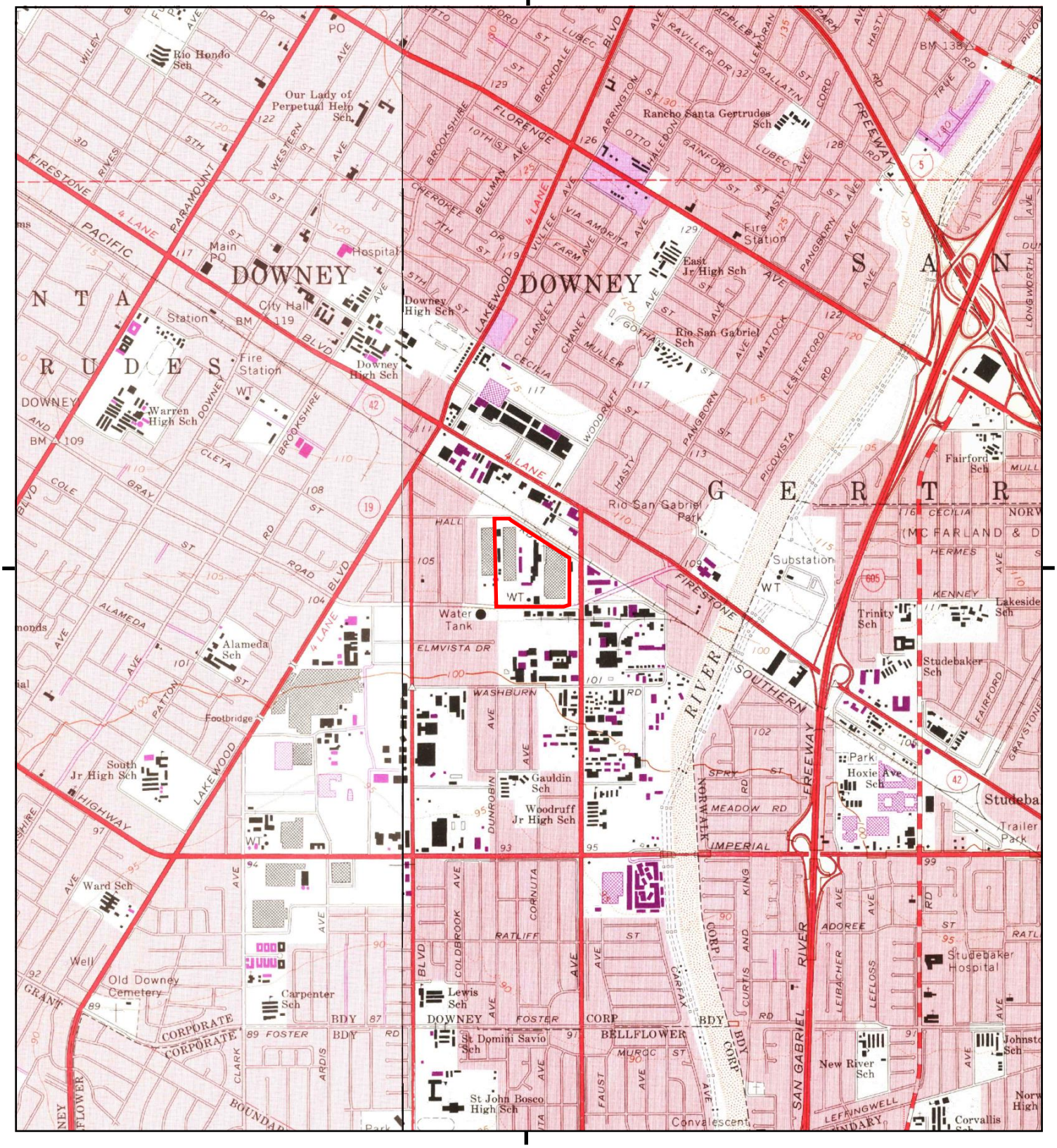
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Whittier, 1981, 7.5-minute
W, South Gate, 1981, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

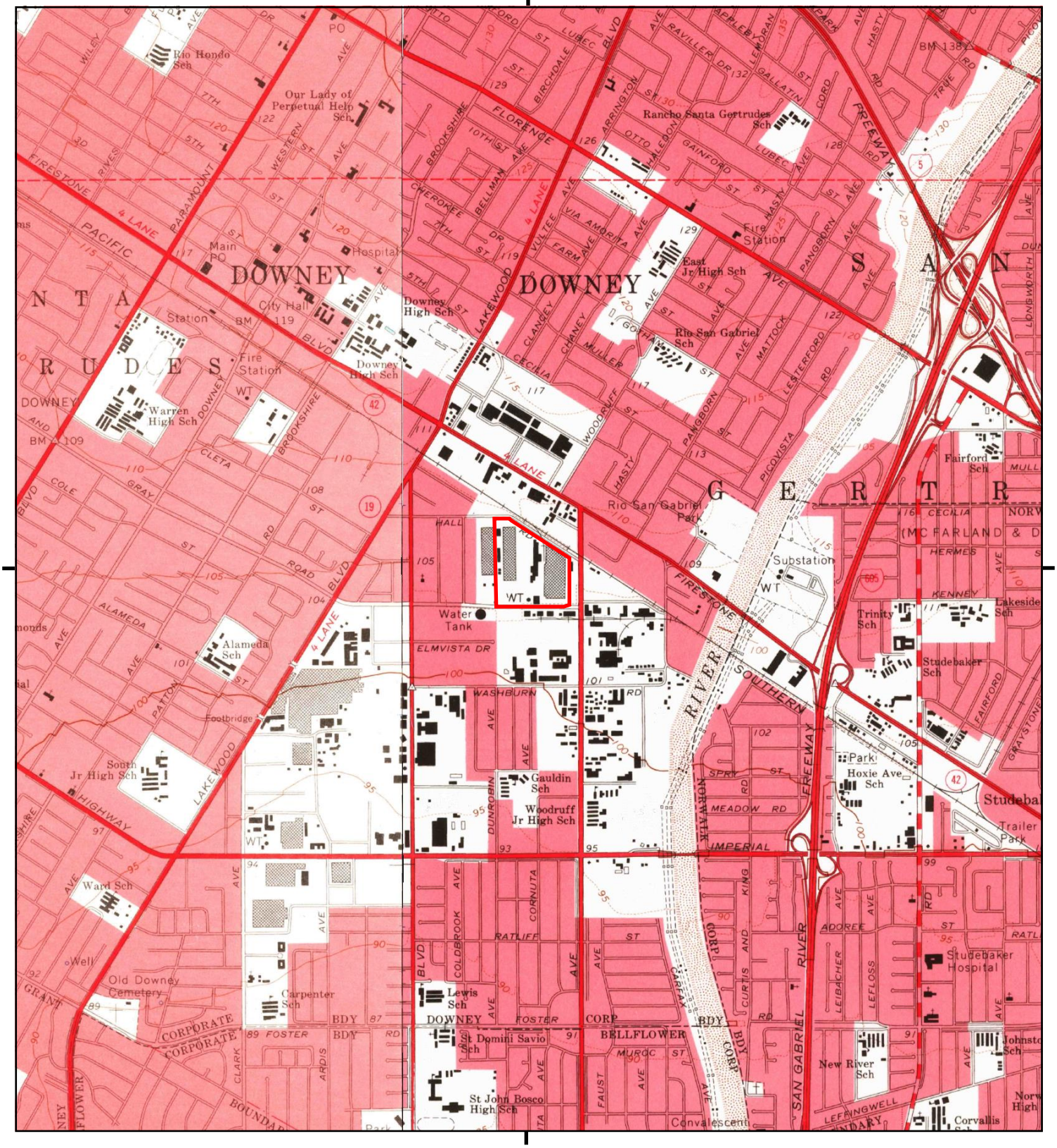
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Whittier, 1972, 7.5-minute
W, South Gate, 1972, 7.5-minute

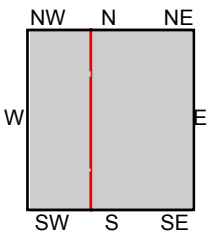
SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

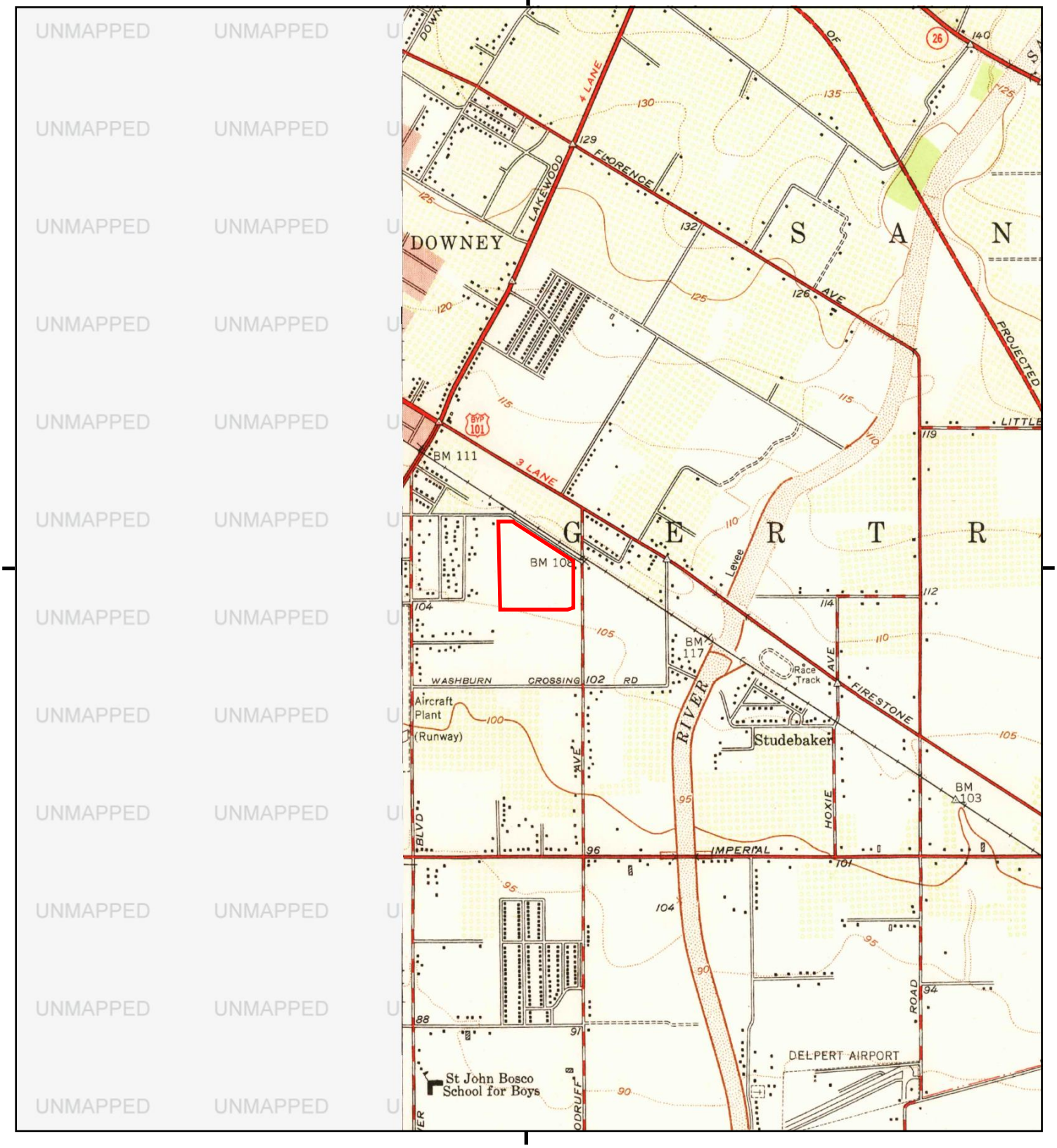
0 Miles 0.25 0.5 1 1.5



TP, Whittier, 1965, 7.5-minute
W, South Gate, 1964, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

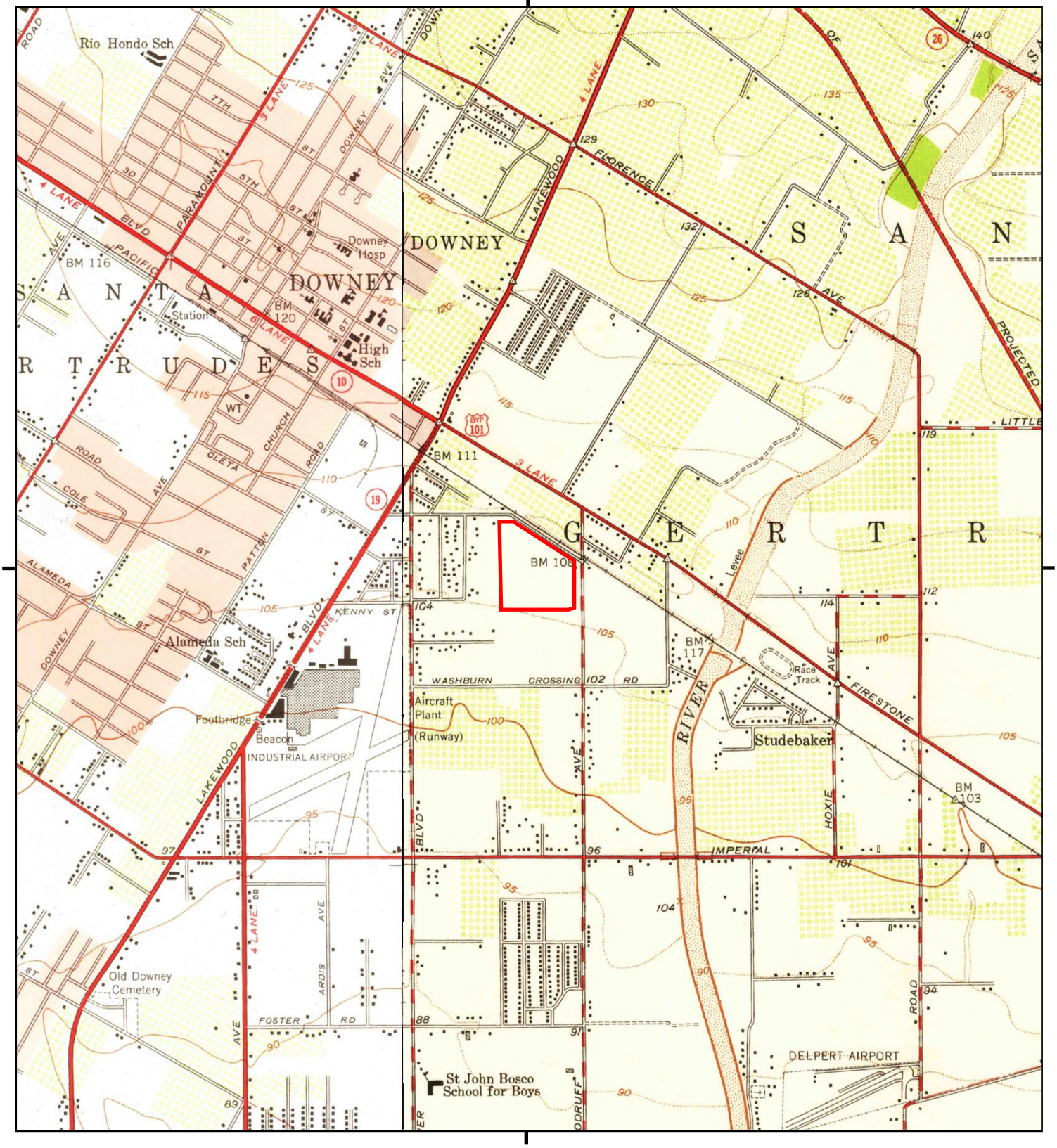
TP, Whittier, 1951, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N

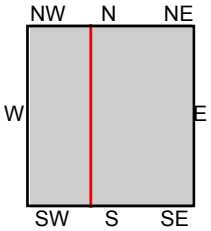
Historical Topo Map

1949



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



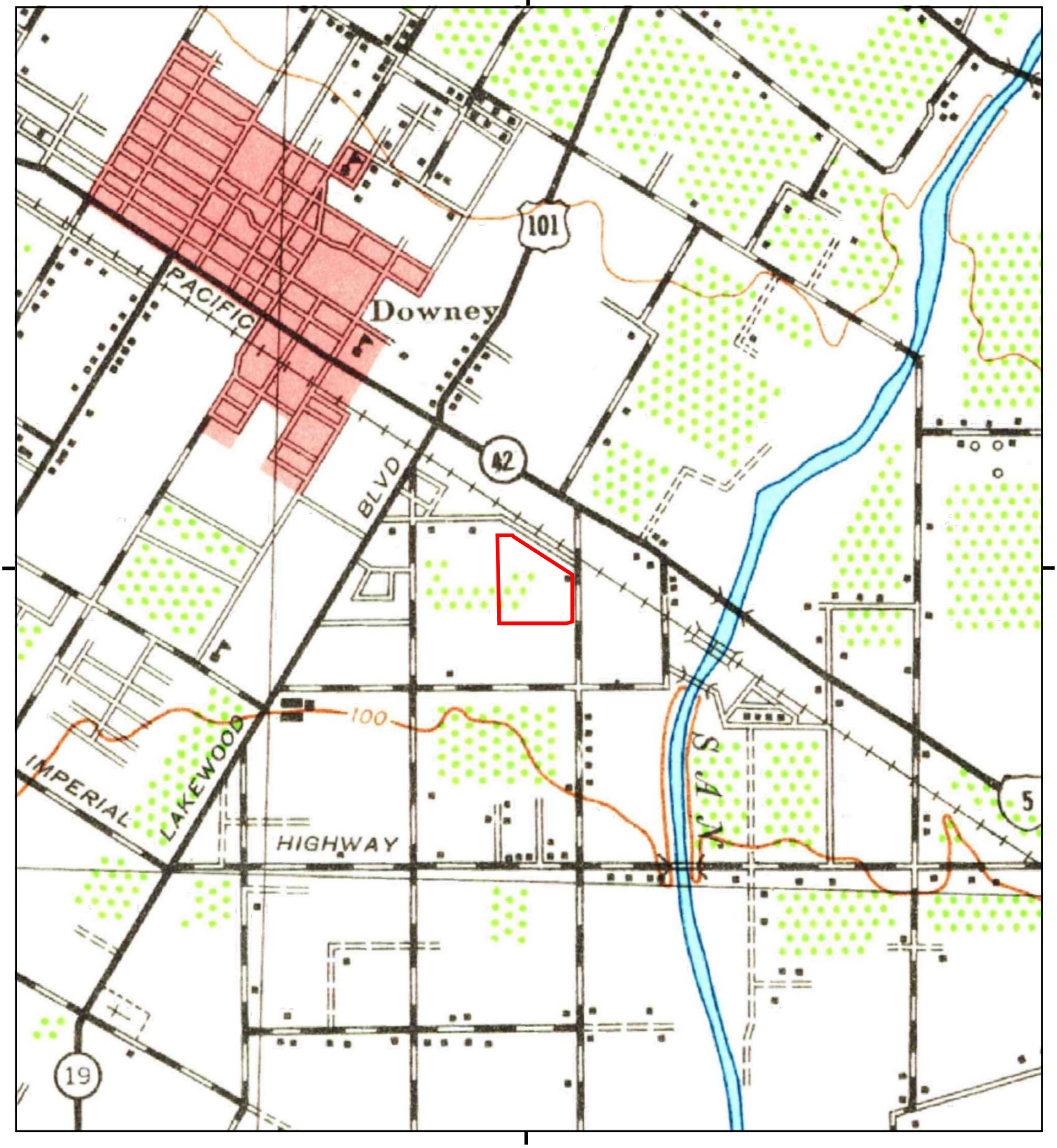
TP, Whittier, 1949, 7.5-minute
W, South Gate, 1949, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N

Historical Topo Map

1943



This report includes information from the following map sheet(s).

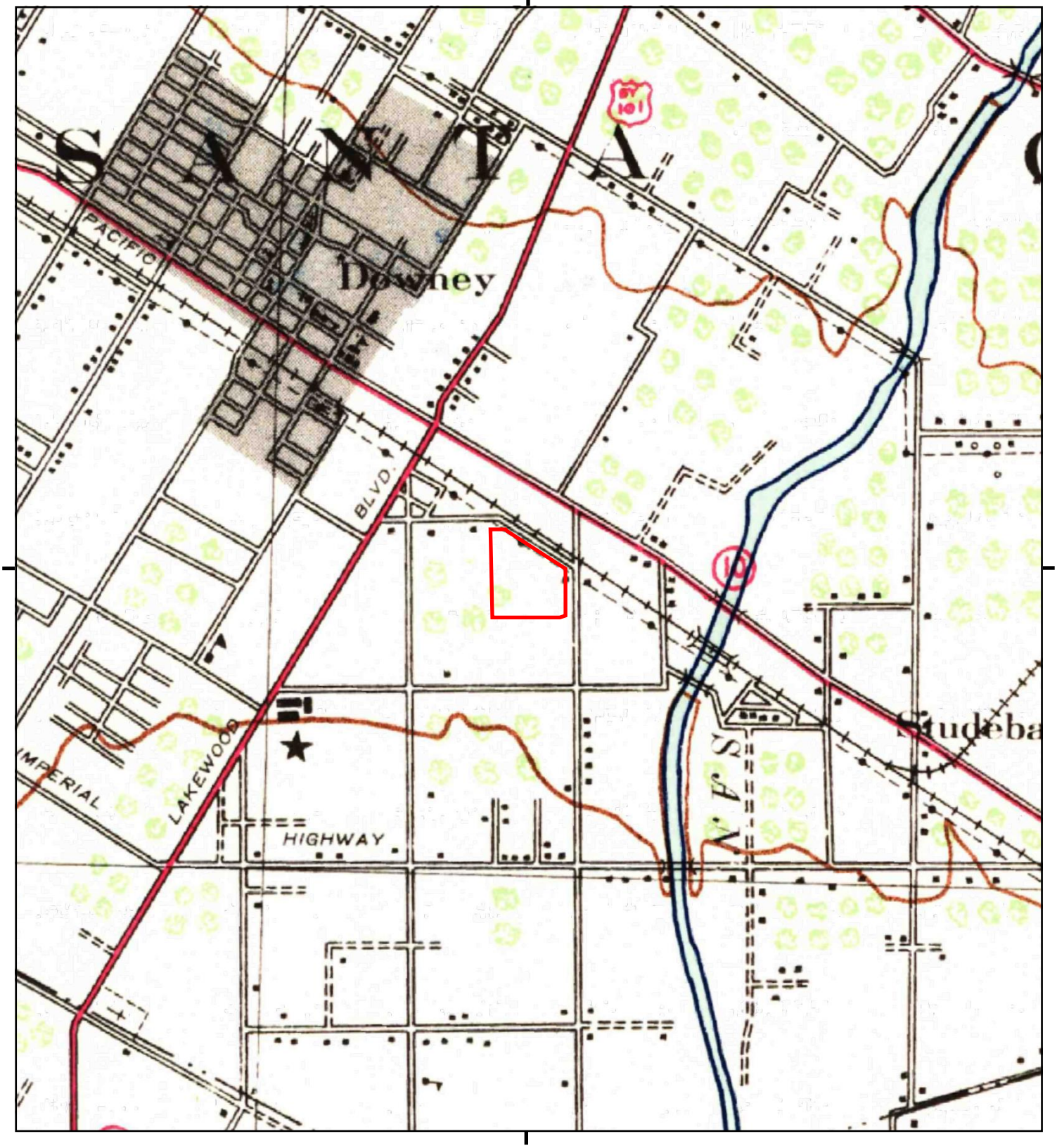
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1943, 15-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

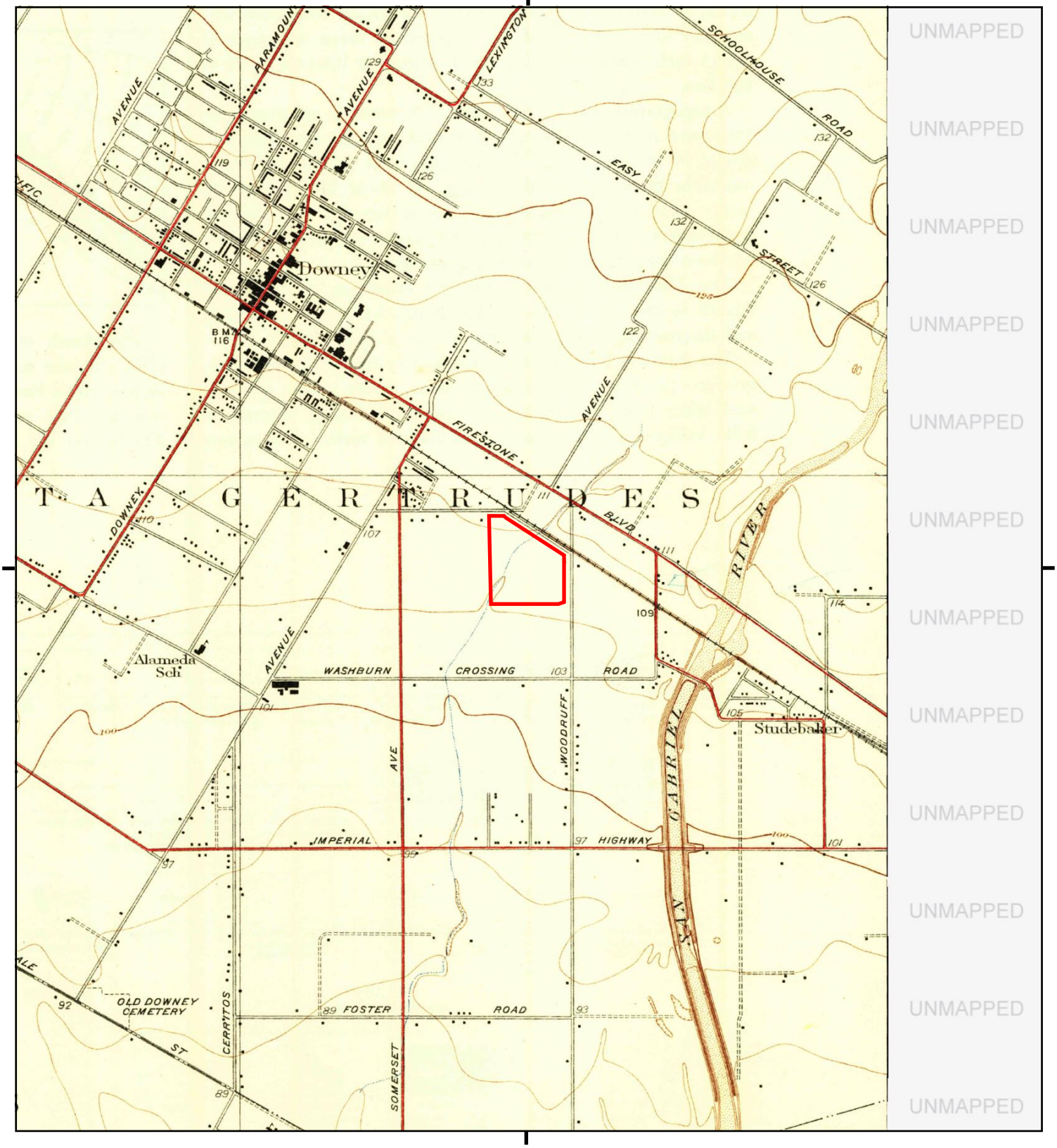
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1942, 15-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

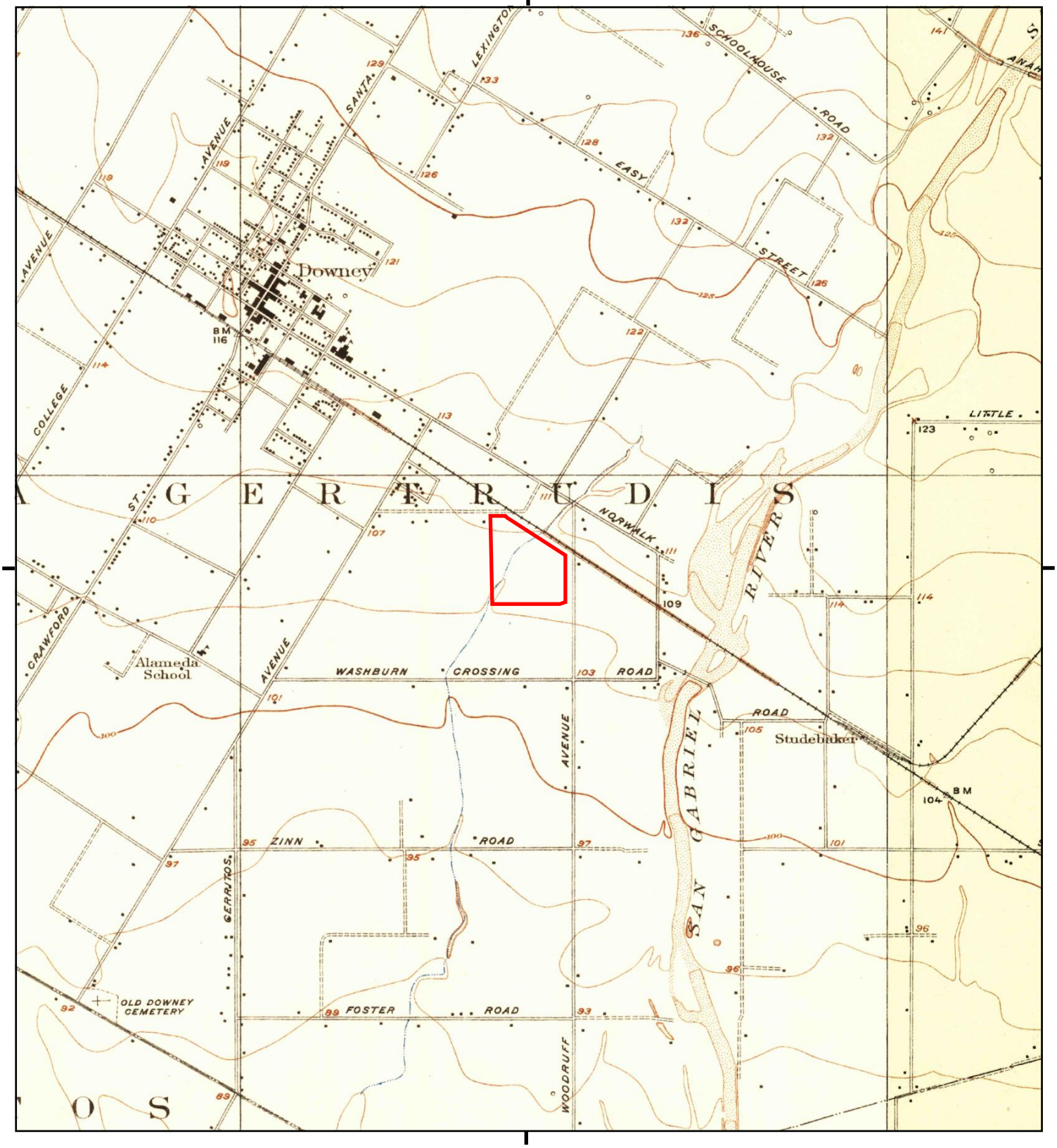
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Bell, 1936, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

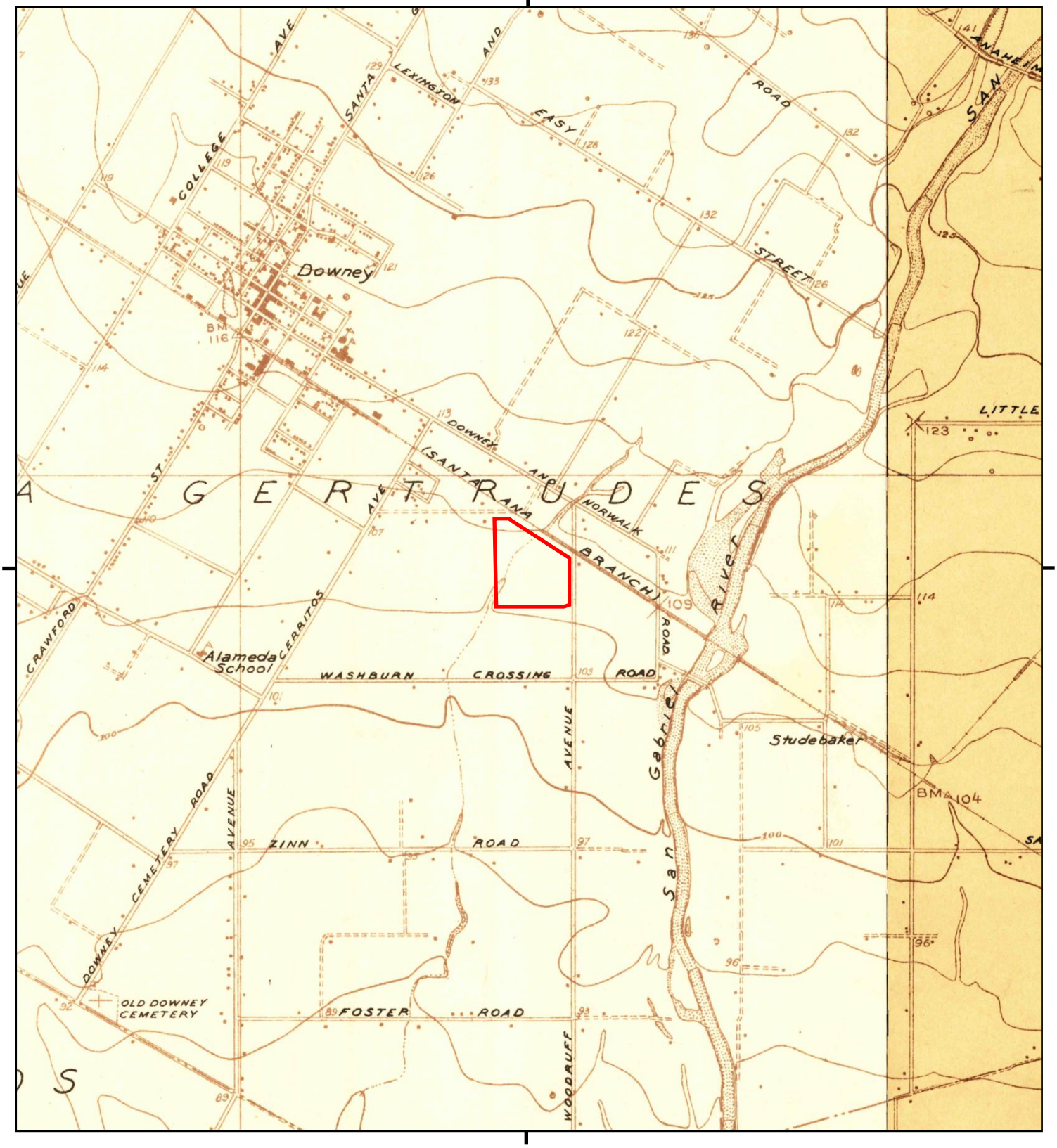
TP, Bell, 1925, 7.5-minute
E, Whittier, 1925, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N

Historical Topo Map

1923



This report includes information from the following map sheet(s).

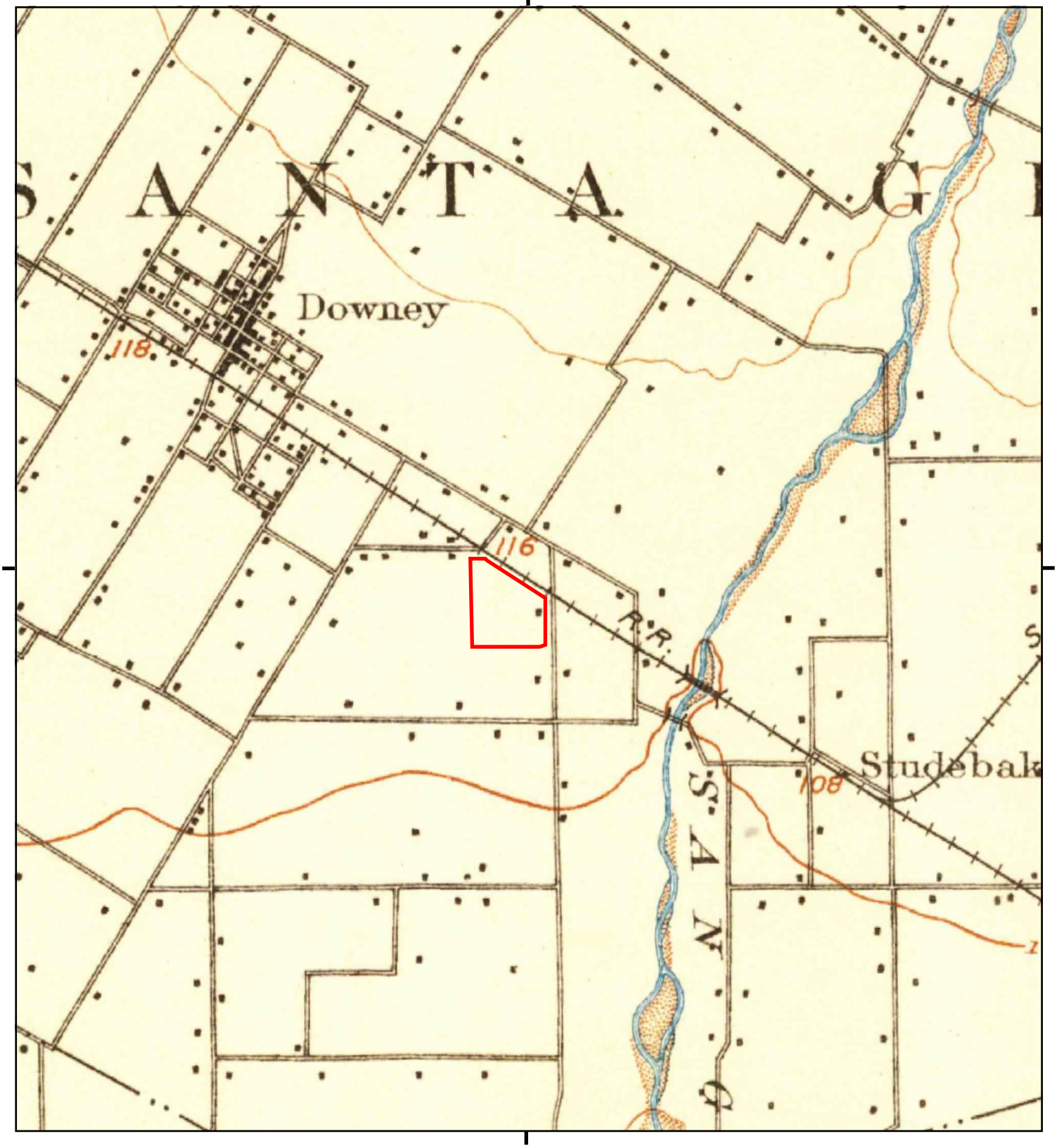
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Bell, 1923, 7.5-minute
E, Whittier, 1923, 7.5-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

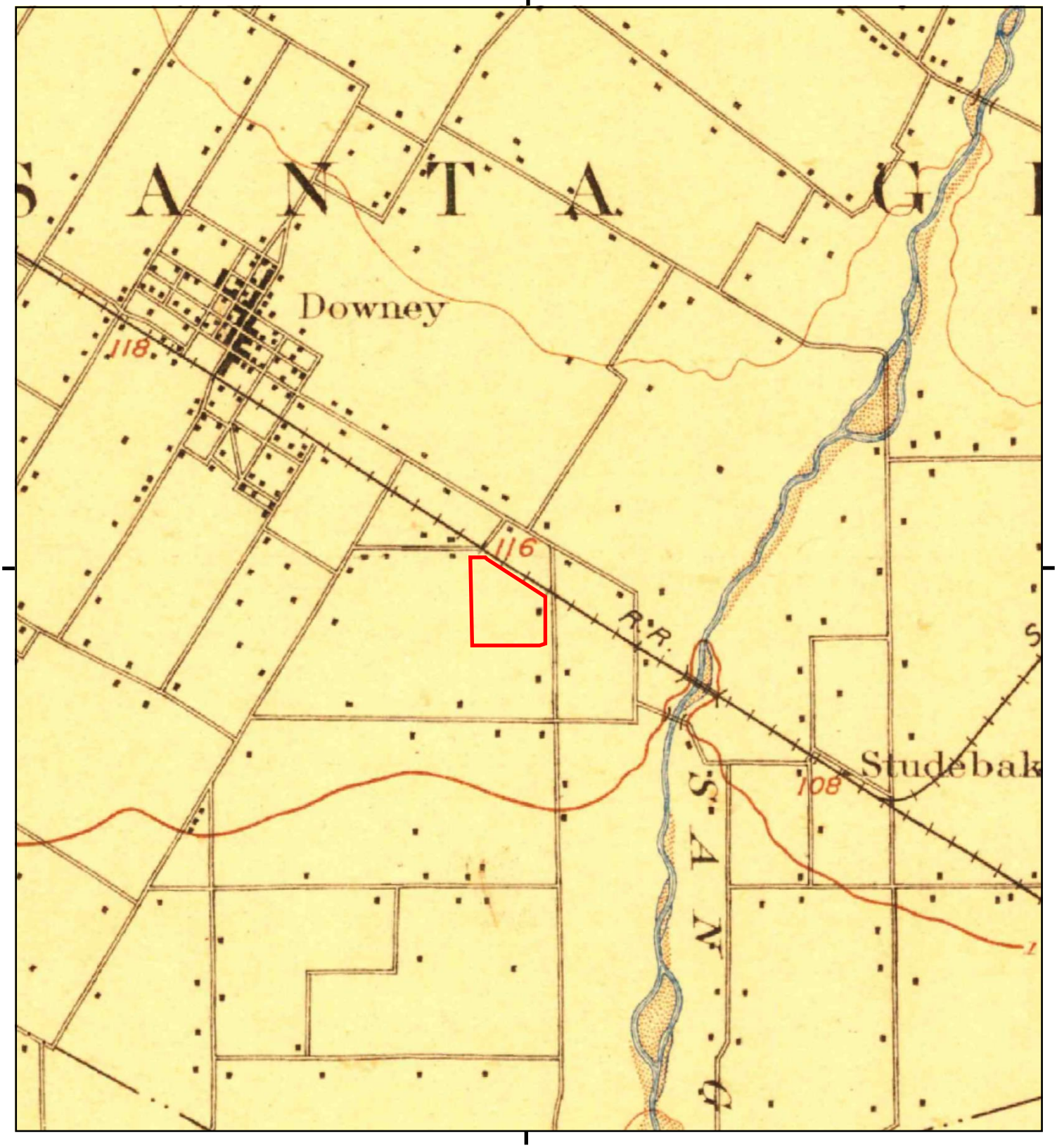
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1902, 15-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

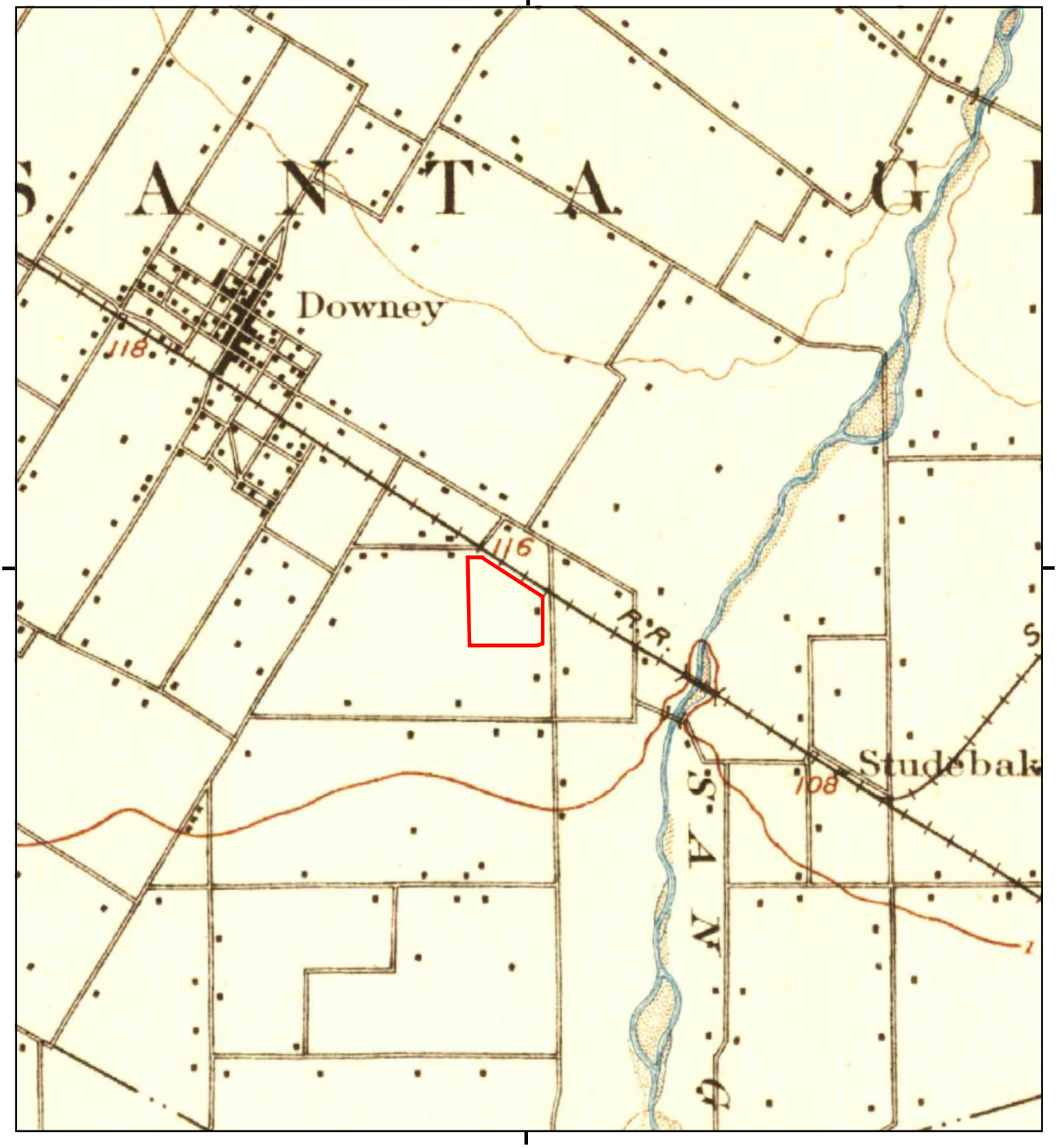
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1899, 15-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1896, 15-minute

SITE NAME: 9300, 9350 and 9400 Hall Road
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Roa
Downey, CA 90241
CLIENT: SCS Engineers

N

APPENDIX D

PREVIOUS REPORTS

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared for

RiverSource Life Insurance Company
and
RiverSource Investments, LLC

Phase I Environmental Site Assessment

Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, CA 90241
April 13, 2007

Prepared by
AES Due Diligence, Inc.
Architectural/Environmental/Seismic Due Diligence Consultants
4909 Murphy Canyon Road, Suite 301
San Diego, California 92123

(858) 569-0211 -Tel
(858) 569-0275 - Fax

AES Regional Offices

Chicago, IL	***Denver, CO***	***Los Angeles, CA***	
(847) 498-4780	*(303) 648-9897*	*(949) 955-0413*	
Portland, OR	***Dallas, TX***	***San Francisco, CA***	***Houston, TX***
(503) 296-0711	*(972) 298-241*	*(707) 996-5529*	*(858) 761-1821*

TABLE OF CONTENTS

EXECUTIVE SUMMARY

I . IDENTIFICATION 3

II. OBJECTIVE AND SCOPE 4

III. PROPERTY DESCRIPTION 8

IV. SITE HISTORY 11

V. ENVIRONMENTAL SITE ASSESSMENT 14

VI. DATABASE RECORDS REVIEW 17

VII. ASTM NON-SCOPE ITEMS 26

VIII. CONCLUSIONS 28

IX. INTERVIEWS 29

X. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS 30

ATTACHMENTS
Vicinity Map
Site Photographs
EDR Database Report
Historic USGS Topographic Maps
Sanborn Maps
Aerial Photographs
Tank Removal Permit
Tank Closure Letter

EXECUTIVE SUMMARY

Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, CA 90241
Project No. 70001016

ISSUE	ENVIRONMENTAL CONDITION IDENTIFIED				ASSESSMENT				
	NONE	REC	HREC	*de minimis*	ACCEPTABLE	O&M	PHASE 2	PHASE 3	COST
Historic Use			X		X				
UST\AST			X		X				
Chemical Use, Storage or Disposal	X				X				
Waste Storage or Disposal	X				X				
PCBs	X				X				
Environmental Records Review	X				X				
REC on Adjoining Property	X				X				
Stains or Odors	X				X				
Solid Waste or Fill	X				X				
Septic Fields, Wells or Drywells	X				X				
Pits, Ponds, Lagoons	X				X				
NON-SCOPE CONSIDERATIONS									
Asbestos		X				X			$900
Lead Based Paint				X	X				
Lead in Water	X				X				
Mold	X				X				
Wetlands	X				X				
Radon	X				X				

I IDENTIFICATION

Subject Site:	Downey Industrial Center
Location:	9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road Downey, CA 90241
Observation Date:	April 9, 2007
Site Contact:	Jim Hilands (323)-727-1144
Client:	Pacific Southwest Realty Services
Lender:	RiverSource Life Insurance Company

Environmental Professional Statement

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a site of the nature, history, and setting of the subject site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:

Richard E. Darwicki
Registered Professional Engineer

Richard E Darwicki

Reviewed by:

Timothy K. Dahlstrand
Certified Professional Geologist

II OBJECTIVE AND SCOPE

Objective

The purpose of this Phase I Environmental Site Assessment is to identify recognized environmental conditions that may have an impact on the subject site, using readily available sources of information, interviews and field observations. It is our understanding the Client intends to finance the site.

Procedures

This Assessment is a Phase I Environmental Site Assessment (ESA) for the improvements located at 9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road in Downey, CA 90241, performed in general accordance with ASTM Designation E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and following the Scope of Work outlined in AES Due Diligence, Inc.'s proposal. AES Due Diligence, Inc. (AES) conducted on-site observations on April 9, 2007, interviewed site operations personnel and observed adjacent properties. Environmental Data Resources, Inc. (EDR) conducted database searches following ASTM guidelines. Such searches are generally limited to a radius of one mile from the subject site. Additionally, ASTM Non-Scope items are addressed in this Assessment, including Asbestos, Lead-Based Paint, Radon Gas, Mold, Wetlands and Lead in Drinking Water. No testing was completed for ASTM Non-Scope items.

Limitations

The purpose of the Phase I ESA of the site is to address the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. If requested by the Client, certain non-scope business environmental risks are addressed in the Assessment. The Phase I ESA is intended to allow the Client to satisfy one of the requirements to qualify for the innocent landowner defense, contiguous property Owner or bona fide prospective purchaser limitations on CERCLA liability: i.e. the practice that constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC § 9601(35)(B). The Phase I ESA does not address whether requirements in addition to appropriate inquiry were met in order to qualify for CERCLA's innocent landowner defense.

The objectives of the Phase I ESA are as follows:

1. Evaluate if recognized environmental conditions (REC), historic recognized environmental conditions (HREC) or *de minimis* conditions are present on the site.

2. Provide sufficient documentation of sources, records and resources utilized in conducting the Phase I ESA.

3. Prepare a professional opinion regarding the presence of RECs at the site.

Special Terms and Conditions

The Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the site.

A Phase I ESA attempts to identify the environmental conditions of the site and vicinity. Environmental conditions and regulations are subject to change and re-interpretation. Current conditions or regulatory requirements should not be assumed to continue to represent conditions at some future time. This Assessment represents AES's professional judgments and opinions based on information presented in this Assessment and no warranty, either expressed or implied, are contained herein.

Limitations and Exceptions of Assessment

The surface conditions of the site were noted by visual observations or information obtained during interviews. No physical testing, soil/groundwater sampling or laboratory analysis was included unless otherwise noted in the Assessment.

The executive summary was prepared for the convenience of the users of this Assessment. This summary does not contain all the information presented in this Assessment and, therefore, the entire Assessment should be read to assure all pertinent information is transmitted.

AES performed the Phase I ESA of the site in substantial conformance with the scope and limitations of ASTM E 1527-05, Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* unless otherwise noted in the Assessment. Certain environmental conditions may exist on a site that are beyond the scope of the Standard, but may warrant consideration. Per the Standard, this environmental site assessment is presumed to be valid for a specific time limit as defined in ASTM Designation E-1527-05.

AES utilized the following methods to complete the reconnaissance of the site. AES observed the site and adjoining properties for indicators of existing or potential recognized environmental conditions. The site walkover consisted of walking the site boundary and several transects across the site. For a site with buildings, the accessible areas of the buildings were entered and observed. Please note that AES did not look under floors, above ceilings or inside walls. The adjoining properties were observed from the periphery of the site, if possible. The observations were documented with representative photographs. No limiting conditions were encountered during the course of the Phase I ESA.

Documents

Our Assessment represents our professional experience and judgment, and a good faith effort to obtain all available information. Documents and data provided by the Client, its designated representatives, or other interested parties, and consulted in the preparation of this Assessment, have been reviewed and may be referenced herein, with the understanding that AES assumes no responsibility or liability for their accuracy or for the withholding by any of the involved parties of any assessments or other information that could affect the transaction.

Intended Use

AES Due Diligence, Inc. is not affiliated with the borrower or any other parties to this transaction. This Assessment is intended to be used in its entirety. No portion of it may be deleted or used out of context without the written consent of AES. The opinions and information contained in this Assessment are time sensitive and represent our evaluation of the environmental site conditions at the time the services were provided. This Assessment was prepared for a limited use involving a single transaction, as set forth herein, and may not be used for any other purpose without the written consent of AES.

Proprietary Information

Field data, field notes, and other data and documents assembled by AES to produce this Assessment represent the work product of AES's training, experience and professional skill. This information belongs to and remains the property of AES Due Diligence, Inc.

Reliance

This Report is for the exclusive use of RiverSource Life Insurance Company, and Pacific Southwest Realty Services. No other party shall have the right to rely on any service provided by AES Due Diligence, Inc. without prior written consent.

Definitions

ASTM defines a Recognized Environmental Condition (REC) as "the presence or likely presence of any Hazardous Substances or Petroleum Products on a site under conditions that indicate an existing release, a past release, or a material threat of release of any Hazardous Substance or Petroleum Products into structures on the site or into the ground, groundwater or surface water of the site." The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

A Historic Recognized Environmental Condition (HREC) is defined as an environmental condition which in the past would have been a REC, but which may or may not be considered a REC currently.

A *de minimis* environmental condition generally does not present a threat to human health or

the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be *de minimis* are not a REC.

Business Environmental Risk (BER) is a risk, which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of the site, not necessarily limited to those environmental issues investigated in this Phase I ESA. BER often necessitates that an environmental professional complete one or more of the non-scope considerations identified by ASTM.

III PROPERTY DESCRIPTION

Site Visit and Interviews

On April 9, 2007, AES visited the subject site and reviewed the fixed facility. The tenants typically provided an escort that accompanied Richard E. Darwicki of AES during the interior viewing portions of the site visit.

AES observed the interiors and contents of representative occupied tenant spaces, common areas and maintenance areas and noted operations and activities at the subject site. AES looked for suspect asbestos-containing building materials, stored chemicals, underground and aboveground storage tanks, unusual surface appearance, wetlands and other issues that may indicate environmental conditions on the subject site. AES noted the location of on-site electrical power transformers and storm drainage structures where these were encountered. AES observed sites adjoining the subject site and areas within the immediate vicinity of the subject site.

AES photographed selected features at or near the subject site to support this written Assessment. The photographs are identified, described and appended to this Assessment.

Subject Site

The project is situated on a tract of land estimated to be approximately 29.16 acres. The property consists of three parcels generally bounded by Hall Road on the northeast, Stewart and Gray Road on the south and Woodruff Avenue to the east, not including the parcels that front Woodruff Avenue. All buildings are within the City of Downey, California. The original improvements were reportedly completed in 1951.

The topography of the site is nearly level and slopes to the south. The site has a maximum surface elevation difference of approximately three feet. Additional slopes are provided around the improvements for storm water drainage. On-site storm water drainage is by sheet flow to catch basins or curb inlets connected to the Downey storm sewer system.

The parking and driveway areas are generally asphaltic concrete paved. Entry driveway aprons, rubbish dumpster pads, and public and private sidewalks are concrete paved.

Pad-mounted, utility company owned electrical transformers are provided on site. The Southern California Edison Company is the electrical supplier and is responsible for transformer-related incidents. Natural gas service is provided by the Southern California Gas Company. The site is provided with municipal water and sanitary sewer services from buried utilities along the adjacent thoroughfares.

Buildings

The property has four primary single-story buildings. The Owner indicates that there are a total of 461,593 square feet (sf) of net rentable floor area. The center is occupied by multiple tenants. The original improvements were reportedly completed in 1951.

Three light steel industrial buildings and one wood framed office building are on site and are supported on shallow foundations. The painted exterior walls of the buildings covered with various finishes including stucco, corrugated steel, CMU and brick veneer. No basements are provided at the project. The roofing consists of a gradient sloped, built-up bituminous roofing system with a mineralized capsheet as a surfacing material. The roofing materials at the pitched portions consist of corrugated metal panels mechanically fastened to the roof and covered with built-up roofing. The buildings are provided with pad-mounted and roof-mounted HVAC units. There is a hydraulically driven elevator in Building 9300.

Adjoining Properties

Properties immediately adjoining the subject site are listed in the following table. The adjoining properties are located in Downey, CA 90241.

Adjoining Properties			
Name	**Operation**	**Direction from Site**	**Concerns**
Railroad tracks	Transportation	Northeast	None
Industrial Buildings 9368-9420 Stewart and Gray Road	Industrial Uses	South	None
Industrial Buildings 11711-11911 Woodruff Road	Industrial Uses	East	None
9236 Hall Road	Vacant Land	West	None

Because of the controlled surface drainage and the predominantly non-hazardous uses on the adjoining properties, they do not, in our opinion, pose a significant environmental risk to the subject site.

Vicinity

AES observed other properties located near the subject site for current uses or conditions that might be environmentally significant. The local area properties observed by AES did not appear to be engaged in environmentally significant activities.

Topography and Hydrogeology

AES reviewed the United States Geological Survey (USGS) Topographic Map, which indicates that the subject site is approximately 110 feet above mean sea level. AES observed that the general drainage flows in a southerly direction across the surface of the site. No substantial grade changes appear to have been made to the subject site when compared to the topography of surrounding sites. A copy of the USGS topographic map that covers the subject site is appended.

Geology and Surficial Soils

The subject site is located above Cenozoic era stratified sequence bedrock. The depth to bedrock is unknown.

According to the information obtained through the EDR Report, subject site is located in an area of loamy soils. These soil types have moderate permeability and would be expected to have moderate susceptibility as a result of surface spreading of wastes, depending upon local soil conditions.

Surface and Ground Water Flow

The regional surface water flows in a southerly direction. The ground water flow in the area is assumed to be to the south. The depth to ground water is unknown.

IV SITE HISTORY

No prior Environmental Reports were provided to AES for review. AES conducted a limited historical review regarding the subject site. The following summarizes AES's review of readily available historical records and maps gathered from government agencies and commercial enterprises regarding the subject site history and use. This should not be considered a listing of all available information.

Interviews

Mr. Hilands had personal knowledge of the uses of the subject site prior to the construction of the current improvements in 1951. He indicated that the site was previously used as vacant land, a munitions factory and Aerojet General manufacturing facilities.

Building Department Records Review

The original building shell permits and current Certificates of Occupancy are not on file at the city. The buildings were constructed before the city was incorporated and the records may have been lost or misplaced.

Aerial Photograph and Historical Map Review

Aerial photographs are reviewed to identify past site use and areas of environmental concern on the subject site. AES has reviewed aerial photographs of the subject site. The photographs were obtained from GeoSearch. Copies of the aerial photographs that were obtained and reviewed by AES are appended. Please see chart below for the specific dates and description summary.

Beginning in the 1860s, the Sanborn Fire Insurance Company, and others, prepared maps that depict site improvements and commercial activities in many metropolitan areas in the United States. AES attempted to obtain fire insurance maps, specific to the site, to review as part of this Phase I Environmental Site Assessment. No Sanborn map coverage is available for the area.

Historical maps provide information concerning historical site boundaries and improvements. Historic Topographic Maps were reviewed for the site, please see the chart below for enumeration of years and findings.

The historical maps reviewed were obtained from GeoSearch, and are appended.

Site History Summary		
Date	**Record Type**	**Land Use**
1928	Aerial Photograph	Agricultural uses
1936	Historical Topographic Map	Undeveloped land
1938	Aerial Photograph	Agricultural uses
1947	Aerial Photograph	Agricultural uses
1952	Aerial Photograph	Current structures
1960	Aerial Photograph	Current structures
1965	Historical Topographic Map	Current structures
1968	Aerial Photograph	Current structures
1972	Historical Topographic Map	Current structures
1976	Aerial Photograph	Current structures
1981	Historical Topographic Map	Current structures
1982	Aerial Photograph	Current structures
1994	Aerial Photograph	Current structures
2002	Aerial Photograph	Current structures

Based on AES's interpretation of the available documentation noted above the first developed and historic site use was primarily agricultural and industrial uses. No evidence of long-term fill activity, surface scarring, staining or other issues of environmental concern were visible in the aerial photographs during the review process.

Directories

City directories provide information concerning historical site ownership and use. City Directories were reviewed for the years 1971 thru 2005 and no significant information was found.

Title Records Review

A title records review, or chain-of-title, can be used to identify prior ownership of a property and to evaluate previous activities or operations in terms of environmental significance. Significant easements, covenants, restrictions and environmental liens may be indicated in title records. A chain-of-title regarding the subject site was not provided to AES for review as part of this Phase I Environmental Site Assessment.

Document Review

With the exception of a 1996 A.L.T.A. survey, no documents were provided for review.

V ENVIRONMENTAL SITE ASSESSMENT

Fixed Facilities Review

The improvements observed by AES on April 9, 2007, were reported to have been completed in 1951. Minor repair activities to meet maintenance requirements and tenant needs are ongoing. Recent improvements have included tenant space build outs and painting, according to Mr. Hilands.

Mr. Hilands indicated that no asbestos containing materials or lead based paint were utilized in the above noted improvements. In addition, he stated that landscape maintenance services are performed by outside contractors. No landscape equipment is stored on the subject site. Landscape equipment and automotive maintenance is performed at the subject site.

Site Tenant Activities

AES reviewed the current tenant for operations that may use regulated materials or generate waste products. AES observed the accessible interior and exterior common areas and maintenance areas. The site is 100% occupied by multiple tenants

AES confirmed the nature of tenant activities in the building, which primarily consists of industrial and warehouse uses. AES entered and observed the activities at sample areas of the building, including the Hudd, Duray, OmniTemp and Western Pacific areas. Also visited were common areas, mechanical rooms and the roofs.

Upon review of the activities at the above locations, AES found no specific environmental concerns regarding these operations.

On-Site Chemical and Petroleum Product Storage

AES looked for chemicals, hazardous substances, petroleum-based fuels and lubricants, and janitorial and cleaning supplies stored on the subject site. Small amounts of used machine oil, lacquer thinner, solvents, truck filters, antifreeze, used motor oil are disposed of intermittently. No other chemicals or hazardous substances were observed on the subject site other than shelf quantities of commonly available janitorial and cleaning supplies.

Waste Disposal Practices

AES identified the current wastes generated at the subject site. According to AES's observations, general and recycled wastes are disposed of from the subject site. Areas of waste storage appeared to be well kept and free of debris.

General wastes are collected, placed in a dumpster, removed from the subject site on an as-needed basis, and disposed of by city contracted firms.

Small amounts of regulated waste haulers are contracted by the Duray/J.F.Duncan and Hudd tenants to dispose of hazardous materials on an as needed basis. Hazardous Waste Manifests were requested from the tenants and have not been received to date.

Underground and Aboveground Storage Tanks

Owners and operators of certain USTs are required to register those USTs with the state agency responsible for administering the federally mandated UST program. A search of the list of registered USTs in California, prepared by EDR, showed that there are no current registered USTs located on the subject site.

AES interviewed Mr. Hilands and various tenant representatives regarding the presence of USTs and ASTs on the subject site. They stated that there are no registered USTs and no hazardous materials registered ASTs located on the subject site. There are no records of USTs and no records of ASTs on the subject site with the exception of propane storage tanks, Refrigerant 404, oxygen cylinders and nitrogen cylinders.

AES interviewed Mr. Hilands regarding the past use of heating fuels on the subject site to ascertain whether USTs or ASTs may have been utilized on site for the storage of heating fuels or oils. Mr. Hilands stated that to his knowledge the improvements have always been heated by electricity or natural gas. AES's observations confirmed the nature of the current heating systems at the subject site.

AES visually observed the subject site for surficial evidence of USTs and ASTs. AES did not observe evidence of USTs or ASTs at the subject site expect as noted above.

Polychlorinated Biphenyls (PCBs)

Federal regulations put into effect following the Toxic Substances Control Act (TSCA) require that electrical transformers be labeled to identify their PCB content. Manufacture and distribution of PCBs was banned in 1979. Transformer owners are responsible for compliance with all applicable regulations governing those transformers, including maintenance of the transformer and any remediation work resulting from a transformer-related incident.

Pad-mounted, utility company owned electrical transformers are provided on site. The observed electrical transformers appeared to be in good condition with no visible leaks. Areas around the electrical transformers exhibited no signs of visible staining or abnormal appearance. AES did not observe any labels on the electrical transformers identifying the PCB content.

Based on utility ownership and no observed leaks, AES recommends no further action with regard to PCBs in transformers.

Exterior Surface Condition

AES observed the exterior surface of the subject site. It is estimated that 98% of the subject site surface was covered by improvements and pavement. AES's observation of the site soil surfaces was therefore limited to the landscaped areas.

None of the historical documentation reviewed, indicated that the subject site was previously utilized as a quarry and/or solid waste disposal facility.

No pits, ponds or lagoons were observed at the subject site during the site visit. No areas of distressed or dead vegetation, surface depressions or surface stains attributed to chronic leaks or spills were observed during the site visit.

Interior Surface Condition

AES observed portions of the interior surfaces of the building for evidence of unusual conditions. We found no evidence of unusual conditions in the areas we observed.

VI DATABASE RECORDS REVIEW

Environmental Records Review

An environmental records database search report dated April 5, 2007, was provided by Environmental Data Resources (EDR). A copy of EDR's report is appended. The following discussion excerpts specific items from the report that deserve additional description.

In addition to the mapped sites in the EDR report, there may also be a list of unmapped sites. These are reported database sites that, due to incomplete addressing information, could not be accurately plotted by EDR. In an attempt to locate all unmappable sites, AES compared each address provided on the unmappable site list to known addresses of the site and vicinity, and attempted to locate unmappable sites during reconnaissance of the vicinity. AES concludes that no unmappable sites were identified that meet the search radius criteria of the scope of work and are considered to be environmentally significant to the subject site.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)

Since 1982, the U.S. EPA has maintained lists of contaminated sites under the federal Superfund Program in accord with the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). The U.S. EPA discovers these sites from citizen reports, routine inspection of hazardous waste generators, treatment, storage and disposal facilities, and reporting requirements.

CERCLA Sites

Facility ID No.	Facility Name and Address	Location			Regulatory History and Current Status
		Distance	Direction	Gradient	
0904850	Red Phosphorus Site 11810 Lakewood Blvd.	1/4	W	Cross	Removal site only, cleaned up.
0905602	NASA Industrial Plant	1/4	WSW	Down	Discovery 1998, not on NPL

Review of the CERCLIS list provided by EDR identifies a total of two CERCLIS sites listed within the ASTM standard minimum search distance of one-half mile from the subject site. There are no CERCLIS facilities on the subject site.

The above referenced CERCLIS facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

CERC-NFRAP List

CERCLA sites designated No Further Remedial Action Planned (NFRAP) have been removed from CERCLIS. CERC-NFRAP sites may be where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the National Priorities List (NPL), or the contamination was not serious enough to require Federal Superfund action or NPL consideration. CERC-NFRAP sites, however, may continue to represent a concern to local or state regulators.

CERC-NFRAP Sites					
Facility ID No.	Facility Name and Address	Location			Regulatory History and Current Status
		Distance	Direction	Gradient	
0901455	Peacock Aerospace 10620 Firestone Blvd	½ mi	ESE	Down	Non NPL, no action planned.

Review of the CERC-NFRAP list provided by EDR identifies only one CERC-NFRAP site listed within the ASTM standard minimum search distance of one-half mile from the subject site. There are no CERC-NFRAP facilities on the subject site.

The above referenced CERC-NFRAP facility was evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

National Priorities List

The U.S. EPA maintains this list as a subset of CERCLIS, identifying over 1,200 CERCLA sites for priority cleanup under the Superfund Program. Once sites have been designated on the CERCLIS list, the U.S. EPA uses its Hazard Ranking System to determine the potential risks of those sites to human health and the environment. Only the sites that present the greatest risk are added to the NPL, which qualifies the sites to receive CERCLA remedial funding.

Review of the NPL list provided by EDR identifies no NPL sites within the approximate minimum search distance of one mile from the subject site.

RCRA – Generators

The U.S. EPA's RCRA (Resource Conservation and Recovery Act, 42 U.S.C. '6991 *et seq.*) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. Generators are also listed in the FINDS database.

Review of the RCRA LQ-Generator list provided by EDR identifies a total of 11 RCRA-LQG sites listed. There is one former RCRA-LQG facility shown on the adjoining property to the west and none on the subject property.

The above referenced RCRA LQ-Generator facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Review of the RCRA SQ-Generator list provided by EDR identifies a total of 71 RCRA-SQG sites listed. There is one RCRA-SQG former tenant facility shown on the subject site and there is one RCRA-SQG facility on adjoining properties.

The above referenced RCRA SQ-Generator facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

RCRA - Treatment, Storage, Disposal Facilities (TSD)

The Resource Conservation and Recovery Act Information System (RCRIS) is a compilation of selective information on facilities that generate, store, transport, treat or dispose of hazardous waste. Inclusion of a facility on the RCRIS database is not necessarily an indication of an environmental problem.

Review of the RCRIS-TSD list provided by EDR identifies no RCRIS-TSD sites within the approximate minimum search distance of one mile from the subject site.

Emergency Response Notification System (ERNS)

The ERNS is a compilation of reported releases of hazardous substances into the environment. The database contains information from Spill reports made to federal authorities, including the U.S. EPA, the U.S. Coast Guard, the National Response Center, and the U.S. Department of Transportation.

Review of the ERNS list provided by EDR identifies a total of 10 ERNS sites listed. There are no ERNS facilities on the subject site.

The above referenced ERNS facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Underground Storage Tanks (USTs)

Certain USTs are regulated under the RCRA Act, and must be registered with the state agency responsible for administering the UST program. USTs are also listed in the CA FID database. Inclusion of a facility on the UST database is not necessarily an indication of an environmental problem.

Review of the current list provided by EDR identifies a total of 22 sites within a search radius of 1/4 mile. There are no facilities on the subject site and there is one former facility on adjoining property to the west. Leaking tanks are discussed in the following section.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Leaking Underground Storage Tanks (LUSTs)

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. LUSTs are also listed in the CORTESE database.

Review of the list provided by EDR identifies a total of 51 sites. There are 22 facilities within the ASTM standard minimum search distance of one-half mile from the subject site. Of the 51 sites, 45 are down gradient or cross gradient. The remaining six sites are closed cases, including the former LUST listing on the subject site. There are no LUST facility listings on the adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

The on site listing at Western Pulp and Paper, 9350 Hall Road, was a soil only gasoline case discovered during the removal of a 1000 gallon premium unleaded gasoline tank and a 15000 gallon diesel storage tanks in 1994. The case was closed August 20, 1996 and a closure letter from the California Regional Water Quality Control Board is appended.

Solid Waste Facilities/Landfills (SWF/LS)

Solid waste records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

Review of the list provided by EDR identifies a total of three sites within the ASTM standard

minimum search distance of one-half mile from the subject site. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

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.

Review of the list provided by EDR identifies a total of nine sites. There are five sites within the ASTM standard minimum search distance of one mile from the subject site. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

DEED (Institutional Controls)

Site Mitigation and Brownfield's Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfield's 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.

Review of the list provided by EDR identifies no sites within the approximate minimum search distance of one mile from the subject site.

California Hazardous Material Incident Reporting System (CHMIRS)

The California Office of Emergency Services database contains reported information on incidents involving accidental releases or spills of hazardous materials.

Review of the list provided by EDR identifies a total of five sites. There are no listed facilities on the subject site.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Hazardous Waste and Substances Sites List (CORTESE)

The Cal-EPA publishes a listing of potential and confirmed hazardous waste sites throughout the State of California. Under California Government Code Section 65962.5, these sites are submitted to the Cal-EPA by the State Department of Health Services, State Water Resources Control Board, the Integrated Waste Management Board and the Department of Toxic Substances Control.

The database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release, and all solid waste disposal facilities from which there is a known migration.

Review of the list provided by EDR identifies a total of 34 sites. There are 15 sites within the ASTM standard minimum search distance of one-half mile from the subject site. There are no facilities on the adjoining properties. The former LUST facility at 9350 Hall Road is also listed as a CORTESE site with no details.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

VCP (Voluntary Cleanup Program)

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Review of the list provided by EDR identifies only one site down gradient and at a lower elevation. There are no facilities on the subject site.

The above referenced facility was evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Hazardous Waste Information System (HAZNET)

The California Department of Health Services, Toxic Substances Control Division, has developed and maintained lists of hazardous waste generators and hazardous waste treatment, storage and disposal facilities in the State of California, in accordance with the Hazardous Waste Control Law (California Health and Safety Code Section 25100 *et seq.*) And the Hazardous Waste Management Act of 1976 (California Health and Safety Code Section 25179.1 *et seq.*). Inclusion of a facility in the HAZNET list is not necessarily an indication of an environmental problem.

Additionally, the California Health and Safety Code requires all counties to prepare and submit hazardous waste management plans. To assist the counties, the Toxic Substances Control Division maintains lists containing hazardous waste generation and disposal data within each county. The Toxic Substances Control Division has assembled this information from manifest reports required from hazardous waste generators. This database currently lists over 20,000 facilities in the State of California.

Review of the list provided by EDR identifies a total of 148 sites. The 9300 Building and 9400 Building at the subject site appear on the list as having disposed of small amounts of hazardous wastes in the past.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Historic USTs

The Hazardous Substance Storage Container Database is a historical listing of former UST sites that are closed and typically not listed with the current UST sites.

Review of the list provided by EDR identifies a total of 65 sites. The SWEEPS list, which is no longer maintained, lists the 9350 Building facility on the subject site. There is one former demised facility listed on the adjoining property to the west.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Dry Cleaners

This database provides a list of drycleaner facilities that have EPA ID numbers. These facilities have certain SIC codes including: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; dry cleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers and laundry and garment services.

Review of the list provided by EDR identifies a total of two sites. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Waste Management Unit Database System (WMUDS/SWAT)

The California Integrated Waste Management Board maintains an inventory list of both open as well as closed and inactive solid waste disposal facilities and transfer stations in accordance with the Solid Waste Management and Resource Recovery Act of 1972, California Government Code Section 2.66790(b). Generally, the California Integrated Waste Management Board learns of locations of disposal facilities through permit applications and from local enforcement agencies. The Waste Management Unit Database System is used by the California Water Resources Control Board and the Regional Water Quality Control Boards for program tracking and inventory of waste management units.

Review of the latest WMUDS/SWAT listing identifies no WMUDS/SWAT facilities within the approximate minimum search distance of ½ mile from the subject site.

Manufactured Gas Plants (MGP)

Manufactured Gas Plants produced combustible gas for urban use prior to the widespread use

and pipeline distribution of natural gas in the 1950s. The main fuels used in production of this gas were coke, coal and oil; the by-products of this manufacturing process include a variety of tars, sludge and other chemicals.

MGP sites tend to have subsurface contamination due to the common practice of disposing of the waste products on site. Review of the MGP list provided by EDR identifies no MGP sites within the approximate minimum search distance of one mile from the subject site.

VII ASTM NON-SCOPE ITEMS

Asbestos

In 1977, the U.S. EPA acted to eliminate friable asbestos from building materials. Friable materials are defined as those that can be crushed or reduced to powder by hand pressure. Materials do not have to be damaged to be identified as friable. Additionally, the United States Occupational Safety and Health Administration (OSHA) now requires certain untested materials to be presumed to contain asbestos for buildings constructed prior to 1981.

During the site visit, AES observed reasonably accessible interior areas of the building for the existence and condition of suspect ACM. No building construction documents were provided for review. Asbestos can be identified only by specialized equipment and not by the unaided human eye. The site visit was not intended to be a comprehensive search for all ACM at the subject site.

Based on the construction date of 1951, and our observations, the present buildings are suspect for materials containing asbestos. The suspect materials include: spray acoustical ceiling materials, vinyl floor tiles, floor or roof mastic, drywall, insulation and transite materials. No sampling or analytical testing of ASTM Non-Scope items was completed. AES recommends the implementation of an asbestos operation and maintenance plan to manage the ACM.

Lead Based Paint

In 1978, the Consumer Product Safety Commission banned the use of lead as an additive in paint. During the site visit, accessible areas were observed for evidence of damaged and/or peeling paint. In general, the painted surfaces appeared to be in good condition. Based on the construction date of 1951, and our on-site observations the present buildings are suspect for containing lead based paint. As the improvements are used for non-residential purposes, the presence of lead based paint is considered to be a de minimis environmental condition.

Potable Water Supply

The subject site is serviced by a municipally operated, public water system, which is regulated by the Safe Drinking Water Act of 1974. This Act requires that public water supplies be tested for the presence of lead in water. AES contacted the local water utility company, the City of Downey, regarding the results of water tests. The utility company reports that the lead content of the water is below the U.S. EPA action level of 0.015 milligrams per liter.

Radon Gas

Radon gas is a naturally occurring, colorless, odorless gas that is the by-product of the decay of radioactive materials found within bedrock and soil. Radon gas enters buildings through

cracks, structural joints, and plumbing openings in floor levels that are in direct contact with the soil. Radon gas, when inhaled, has been found to be carcinogenic in some humans. The U.S. EPA recommended action level for radon gas is 4.0 pCi/L (picoCuries per liter).

The State of California, in conjunction with the U.S. EPA, has conducted residential screening tests in Los Angeles County. The results of that screening indicate that Los Angeles County is predicted to have an average indoor radon screening level of 0.711 pCi/L, with 100% of tests less than 4.0 pCi/L.

AES reviewed the U.S. EPA's Map of Radon Zones for California, which identifies Los Angeles County as being within Radon Zone 2. Counties within Radon Zone 2 have a predicted average indoor radon gas screening level of between 2 and 4 pCi/L.

Based on the literature reviewed, it is our opinion that the risk of radon gas accumulation is not a significant environmental concern at the subject site.

No sampling or analytical testing of ASTM Non-Scope items was completed

Wetlands

AES did not observe ponded water, flowing water, saturated soils or hydrophytic vegetation at the subject site.

Mold

AES observed portions of the exposed exterior and interior material surfaces of the improvements for signs of mold and/or mildew and none was observed. Based on the condition of these surfaces, the general quality of the exterior details to keep moisture out of the building and the general interior air quality observed in the improvements without the assistance of specialized testing equipment, mold and/or mildew were not an environmental concern to the subject property at the time of our site visit.

Please note that AES did not perform any probes behind surface materials, use moisture meters to test materials or use specialized equipment to test air quality for signs of existing mold and/or mildew. If further confirmation is required for determining if mold and/or mildew is present in the subject improvements AES recommends that a qualified Industrial Hygienist be retained to perform the necessary industry standard tests and provide a report of their findings.

VIII CONCLUSIONS

Findings and Opinion

AES completed a Phase I ESA for the site in substantial conformance with the scope and limitations of the Standard. Any exceptions to, or deletions from, the Standard are described in the Assessment.

Historical Recognized Environmental Conditions (HRECs)

Based on site observations, interviews and review of available documents and the database records search, AES concludes that several HRECs were identified at the subject site. The HRECs include the historic UST at the site, the 1994 LUST incident (now closed) and historic site use (manufacturing facility). AES recommends no additional investigation at this time.

Current Recognized Environmental Conditions (RECs)

Based on site observations, interviews and review of available documents and the database records search, AES concludes that one REC was identified at the subject site. Based on the building age, asbestos is suspected at the site. These materials can be managed in place using an asbestos operation and maintenance plan. AES recommends no additional investigation at this time.

de minimis Conditions

Based on site observations, interviews and review of available documents and the database records search, AES concludes that one *de minimis* condition was identified at the subject site. Based on the age of the buildings, lead based paint is suspected at the site. AES recommends no additional investigation at this time.

Conclusions

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations ASTM Practice E 1527-05 of 9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road, the *property.* Any exceptions to or deletions from, this practice are described in Section II of this *report.* This assessment has revealed no evidence of *recognized environmental conditions* with the *property* except for the following:

Based on age of the buildings, suspect asbestos containing may be present at the site.

IX INTERVIEWS

Name	Title/Affiliation	Phone
Mr. Jim Hilands	Owners Representative Heger Realty Corporation	(323) 727-1144
Mr. Phil Wijmer	Vice President of Operations Western Pulp and Paper	(562) 803-4401
Mr. Bill Franklin	Manager Duray/J.F. Duncan	(562) 862-4269
Mr. Brian Crossen	Plant Manager Omni Temp	(562) 923-9660
Mr. Danny Reavis	Operations Manager Hudd Distribution	(562) 674-2100
Staff	Building and Planning Departments City of Downey	Office Visit
Staff	Fire Department City of Downey	Office visit

X QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

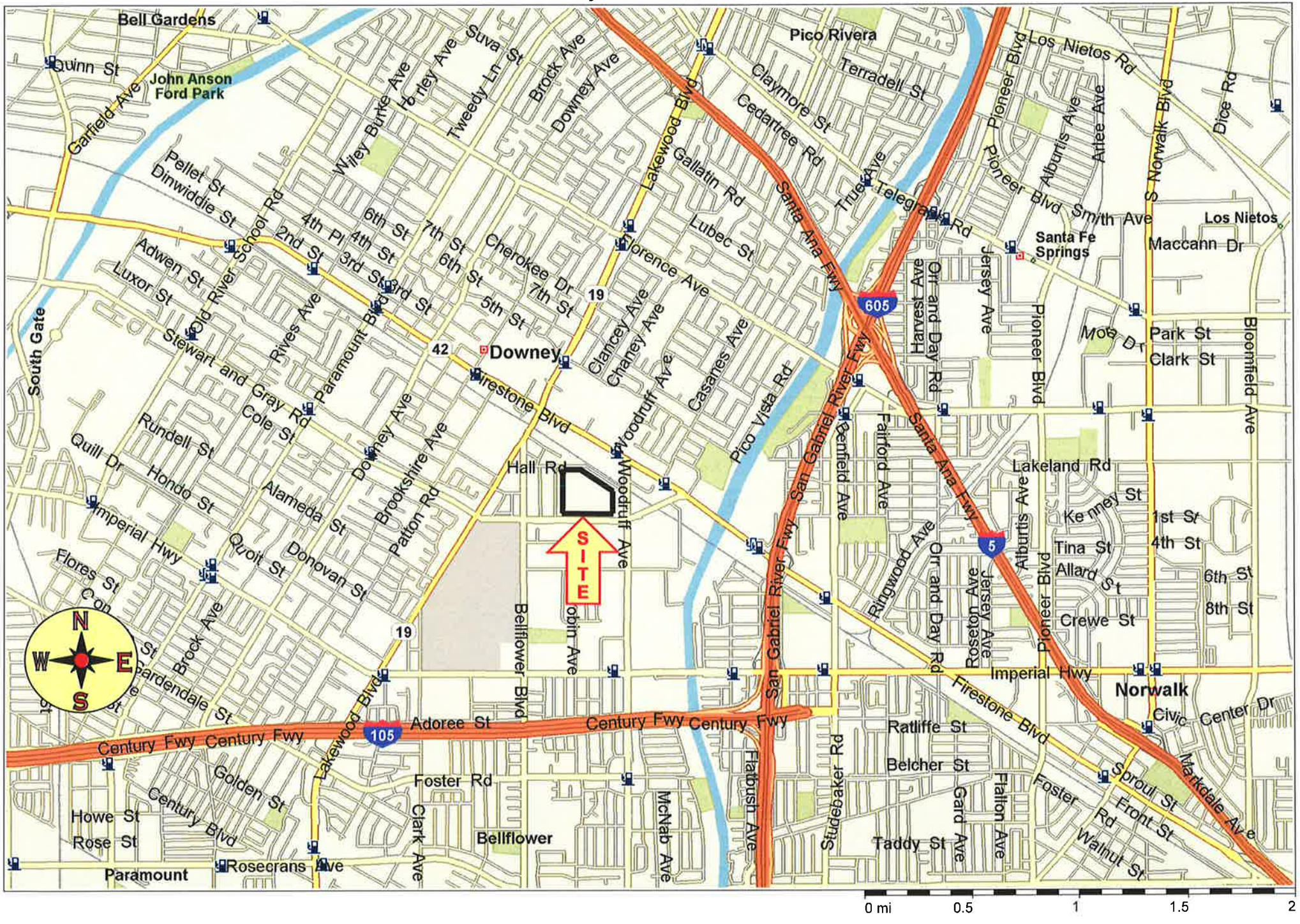
Richard E. Darwicki -Mr. Darwicki has over ten years of experience related to environmental assessments and over 30 years experience related to engineering matters. He has completed numerous Phase I Environmental Site Assessments throughout the United States. He is a Licensed Engineer in the State of California and attended Santa Ana College and Fullerton College.

Timothy K. Dahlstrand - Mr. Dahlstrand has over twenty-five years of experience related to environmental and engineering matters. He has completed and supervised hundreds of Phase I Environmental Site Assessments throughout the United States and internationally. He is a Registered Professional Engineer and Professional Geologist and holds a B.A. in Geology and an M.S. in Civil Engineering from Northwestern University.

ATTACHMENTS

SITE VICINITY MAP

Downey Industrial Center



SITE PHOTOGRAPHS

1) Typical of adjacent property to the north.

2) Typical of adjacent property to the south.

3) Typical of adjacent property to the east.

4) Typical of adjacent property to the west.

5) Typical of exterior finishes and landscaping.

6) Typical of large propane tank.

7) Typical of electrical transformer.

8) Typical of roof finishes and equipment.

9) Typical of chemical drums.

10) Typical of office finishes.

11) Typical of restroom finishes.

12) Typical of kitchen/ lunchroom finishes.

13) Typical of warehouse area.

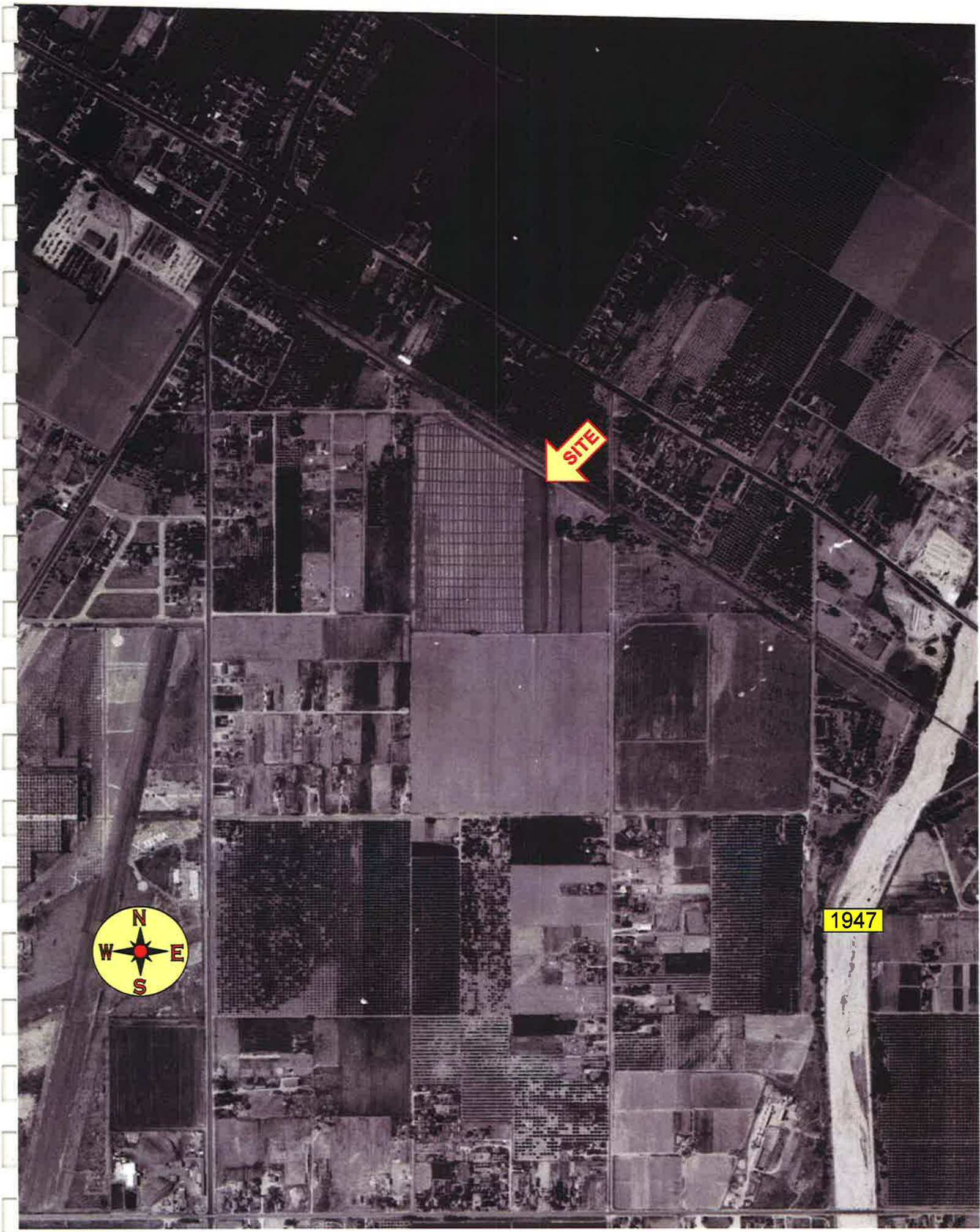
14) Typical of elevator equipment.

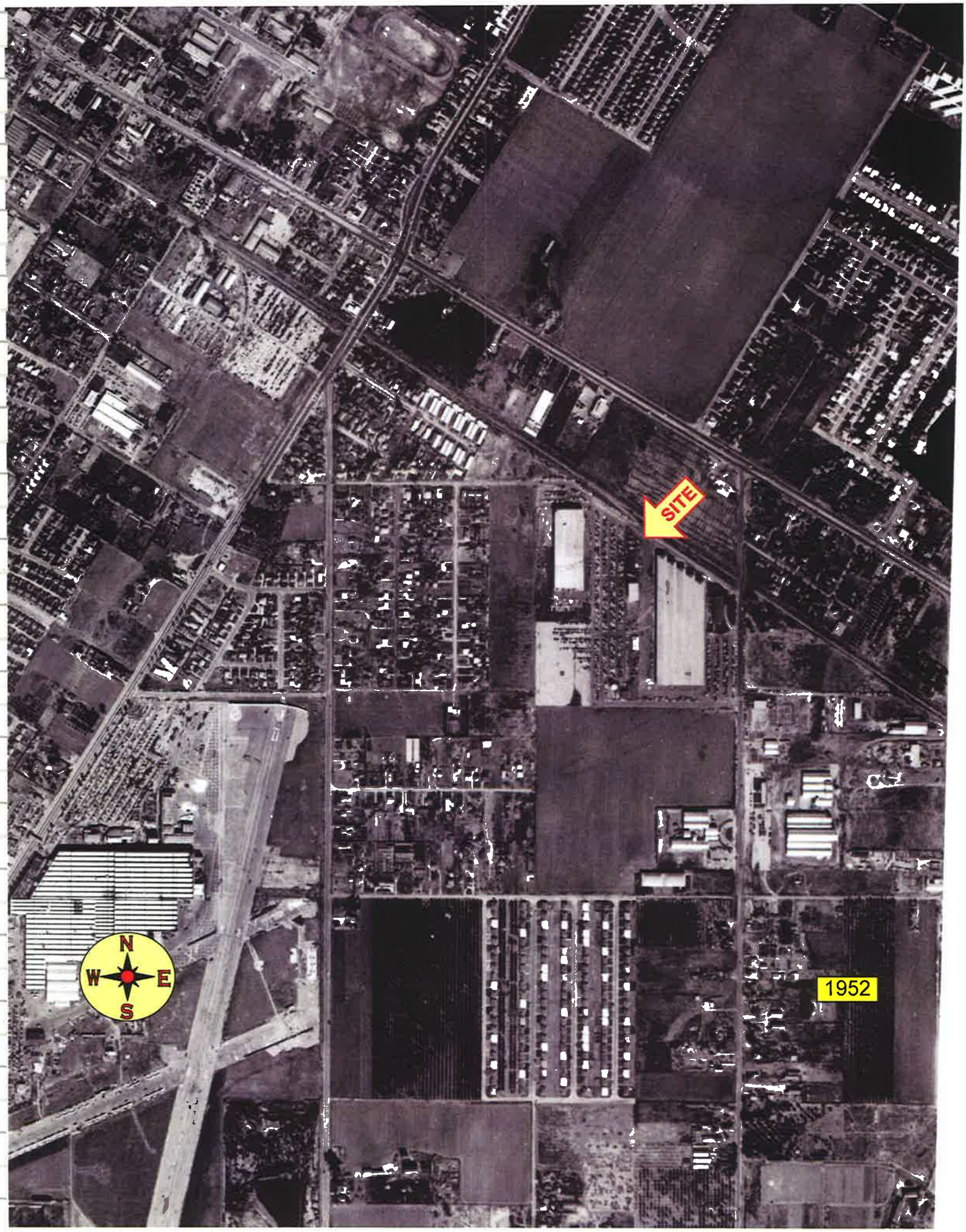
15) Typical of gas cylinder storage area.

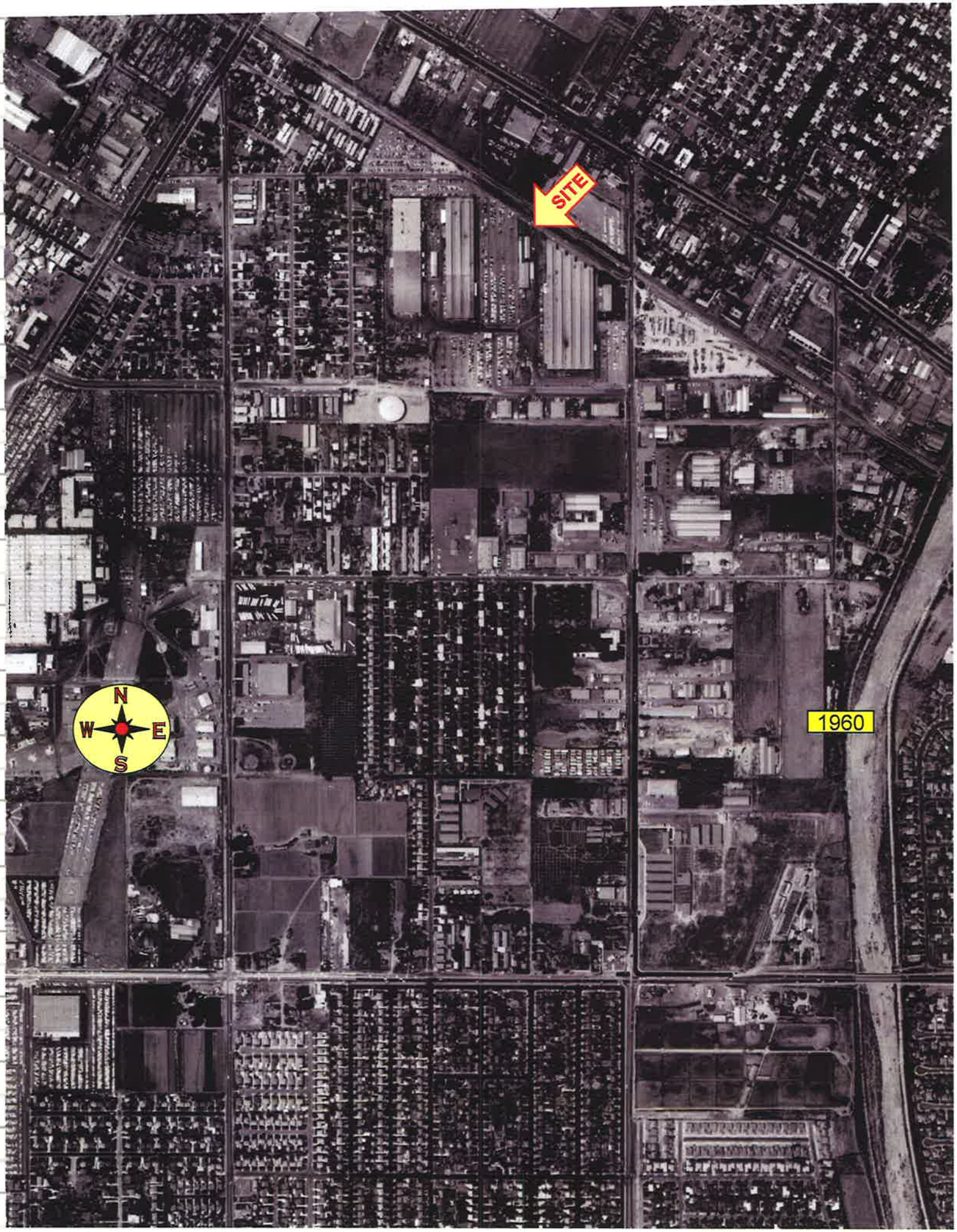
16) Typical of maintenance storage room.

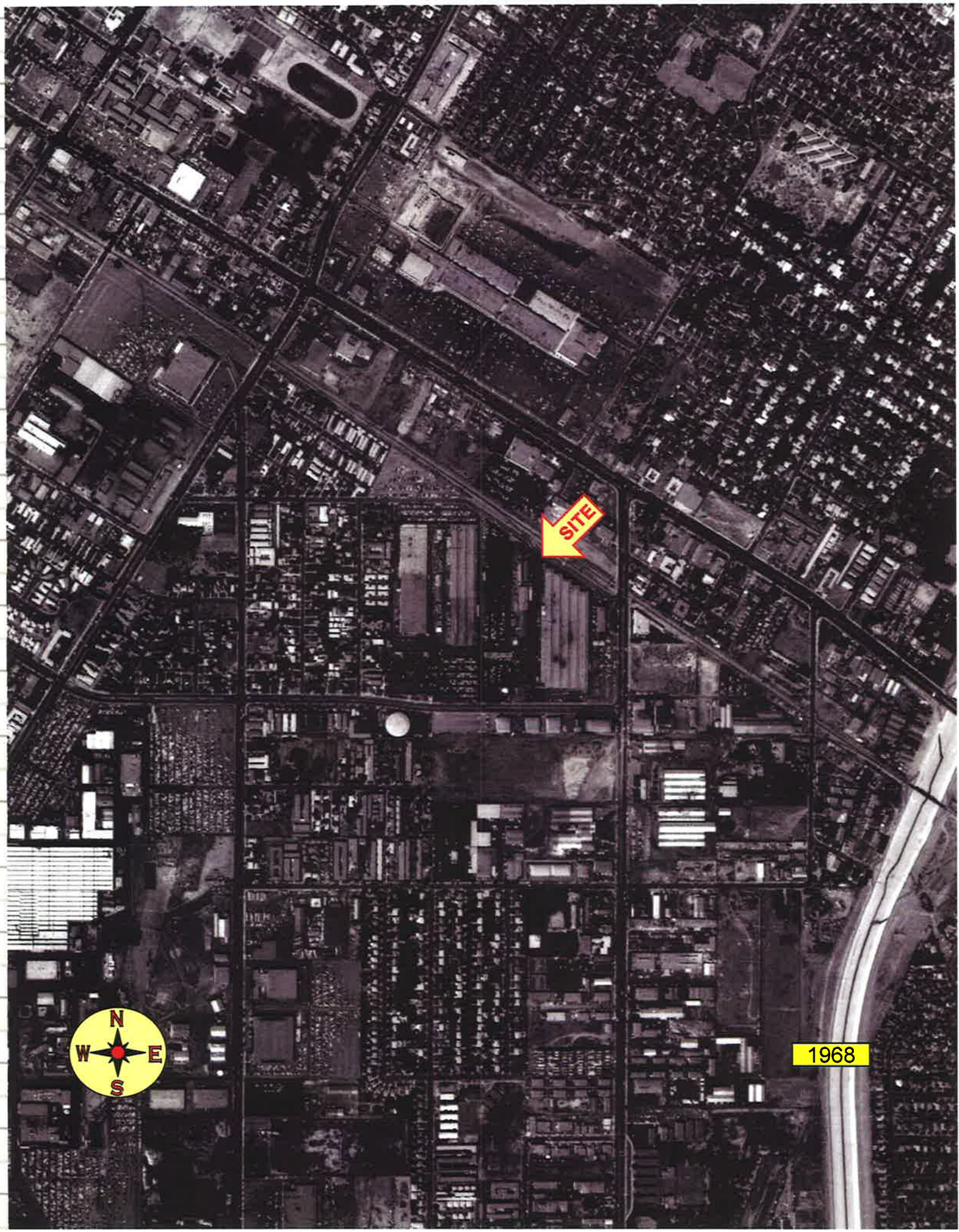
C300 M195
SITE
N
W
E
S
1928

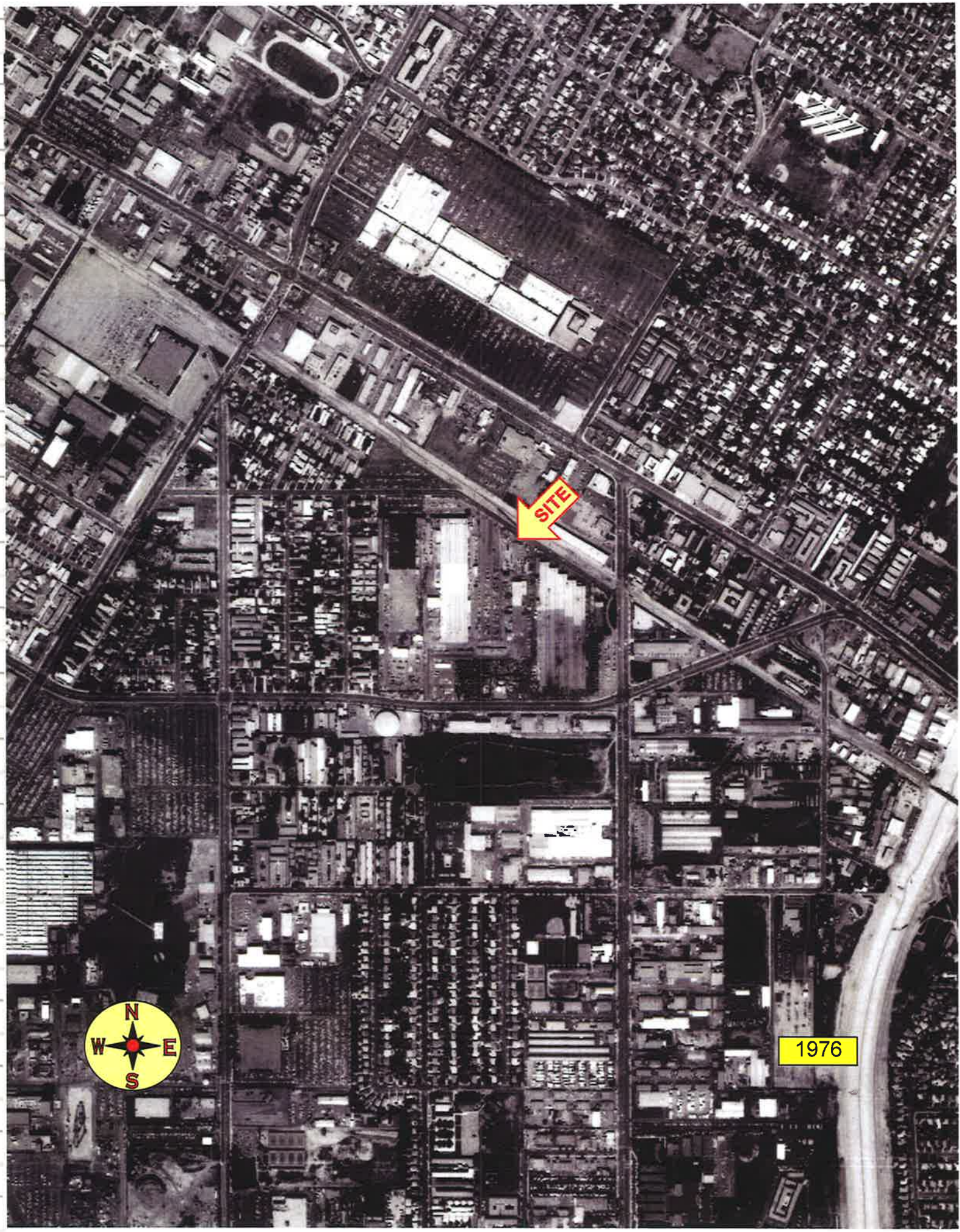
SITE
N
W
E
S
1938

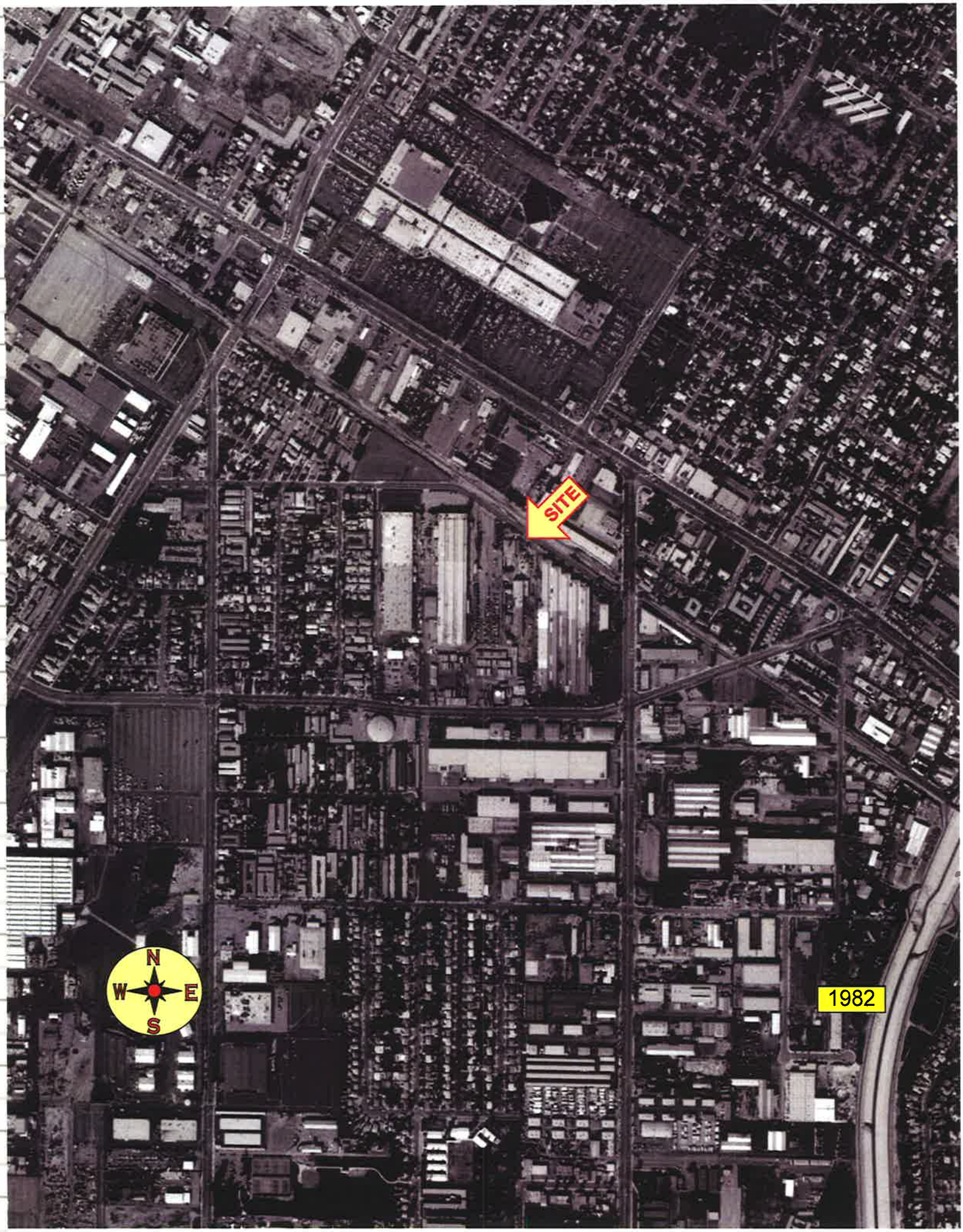

SITE
N
W
E
S
1947

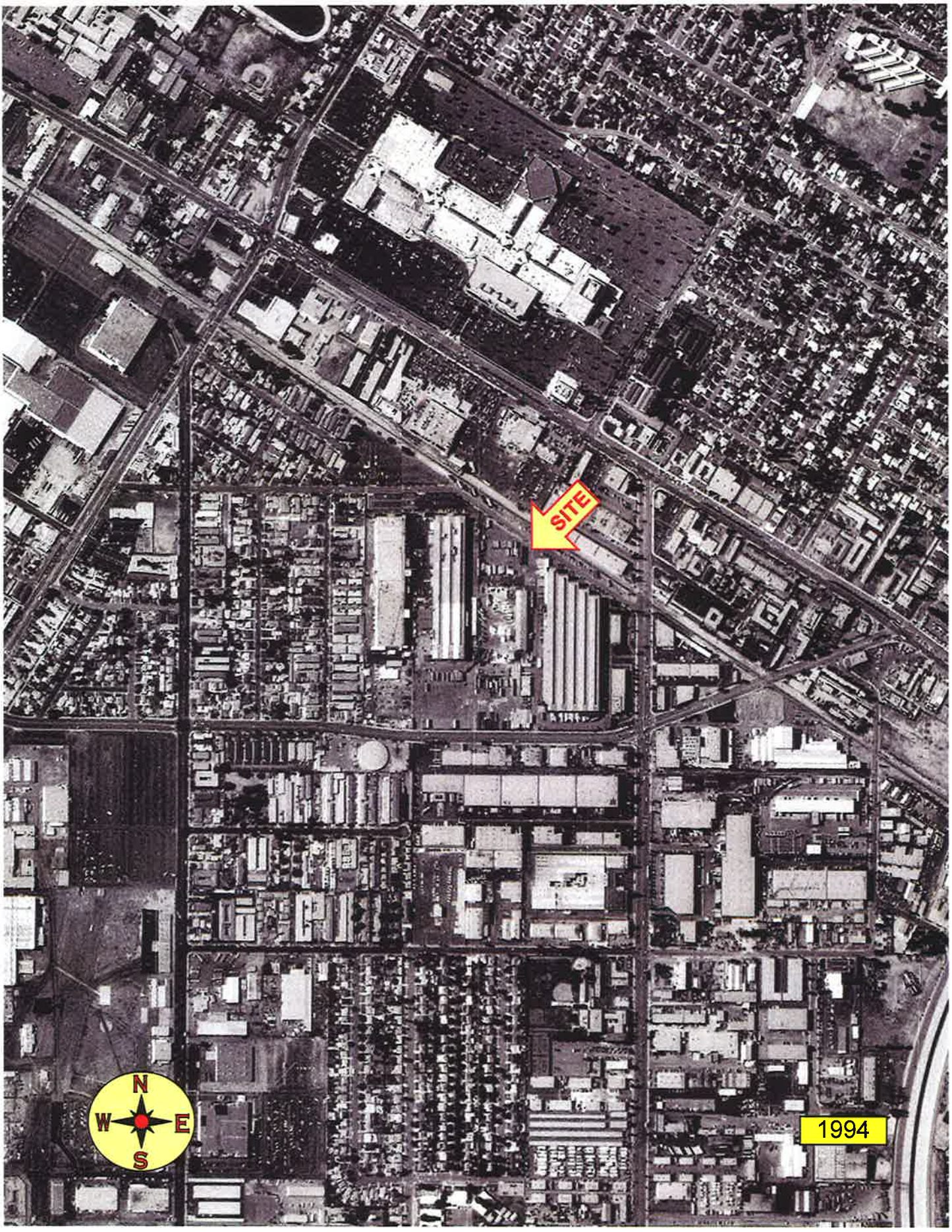

SITE
N
W
E
S
1952

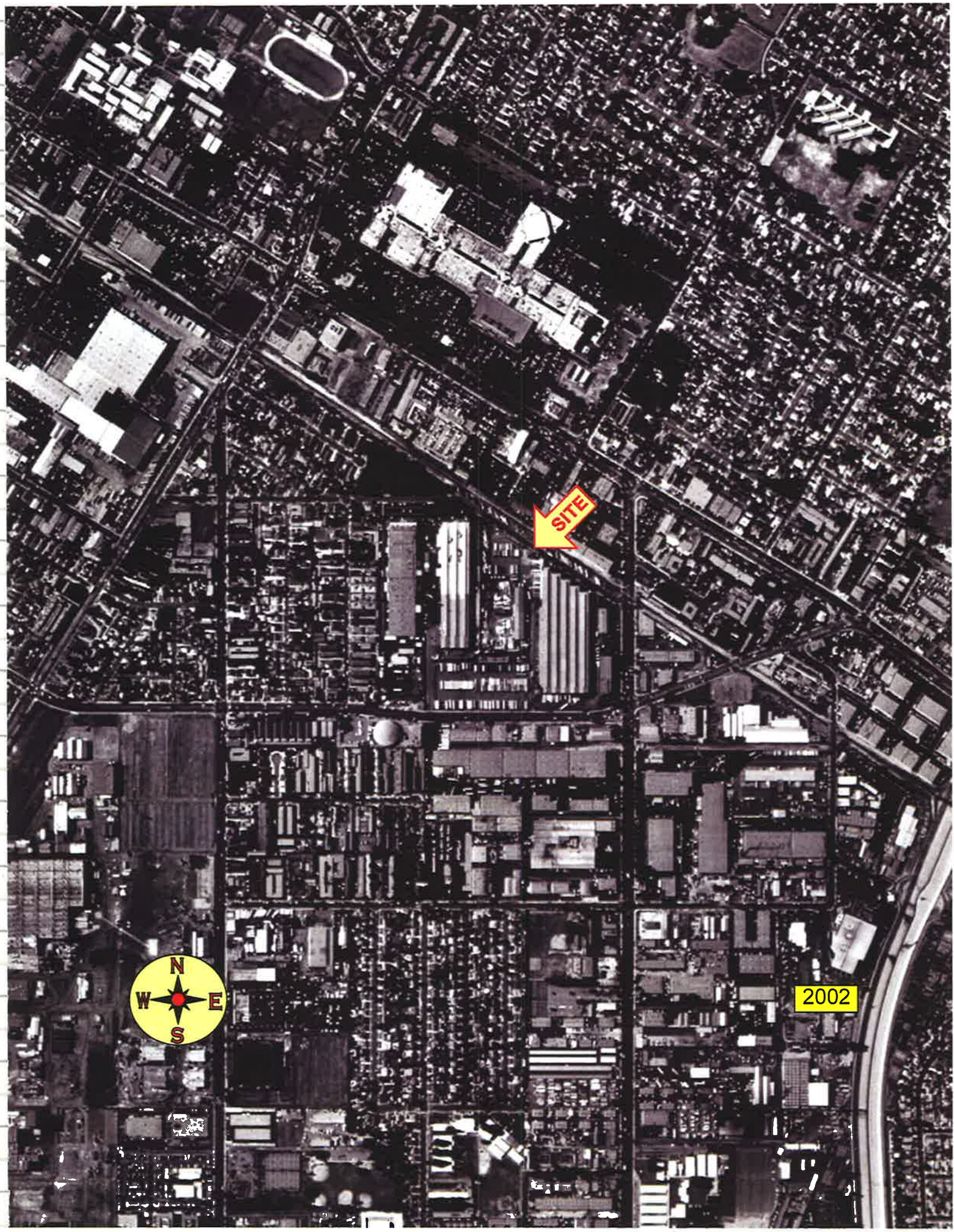

SITE
N
W
E
S
1960


SITE
N
W
E
S
1968

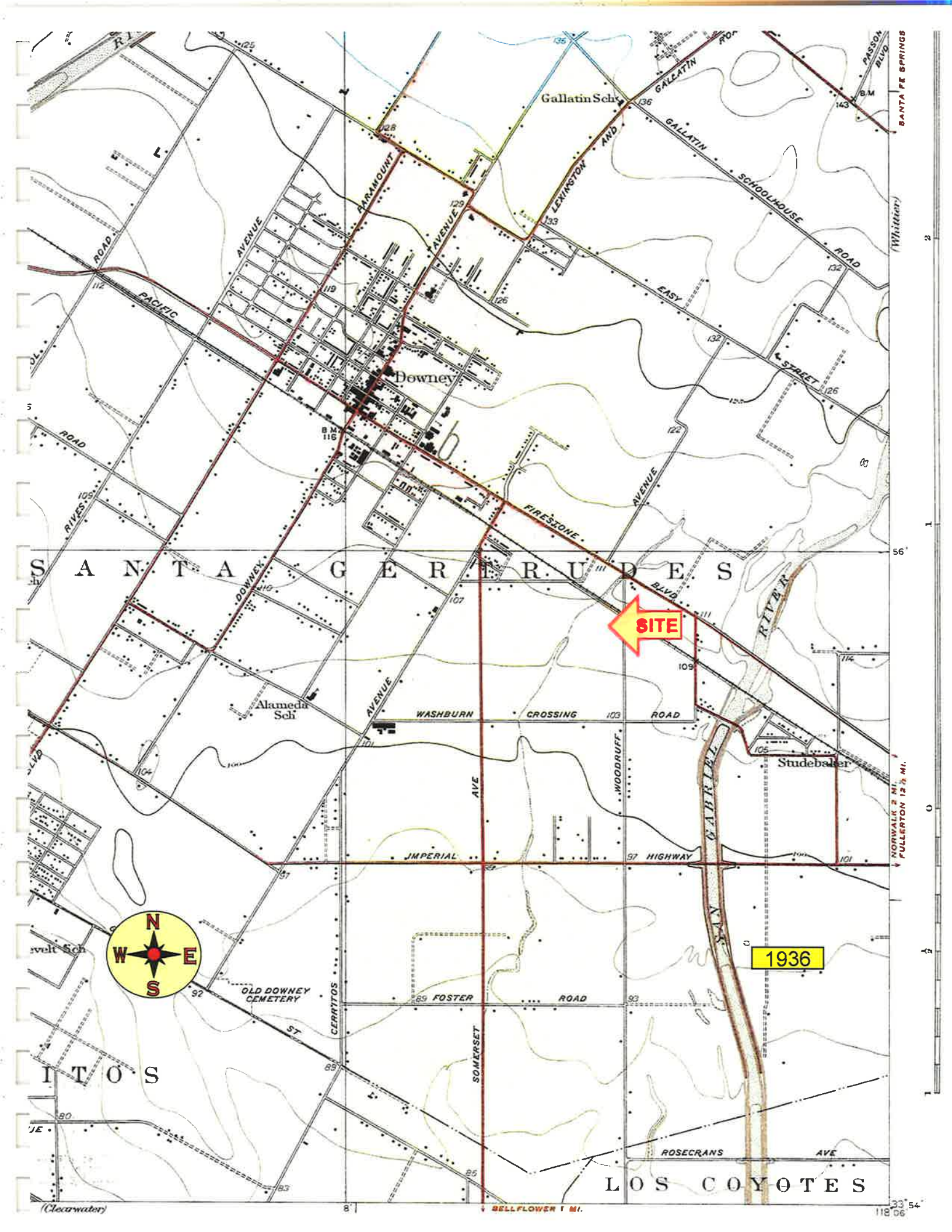

SITE
N
W
E
S
1976

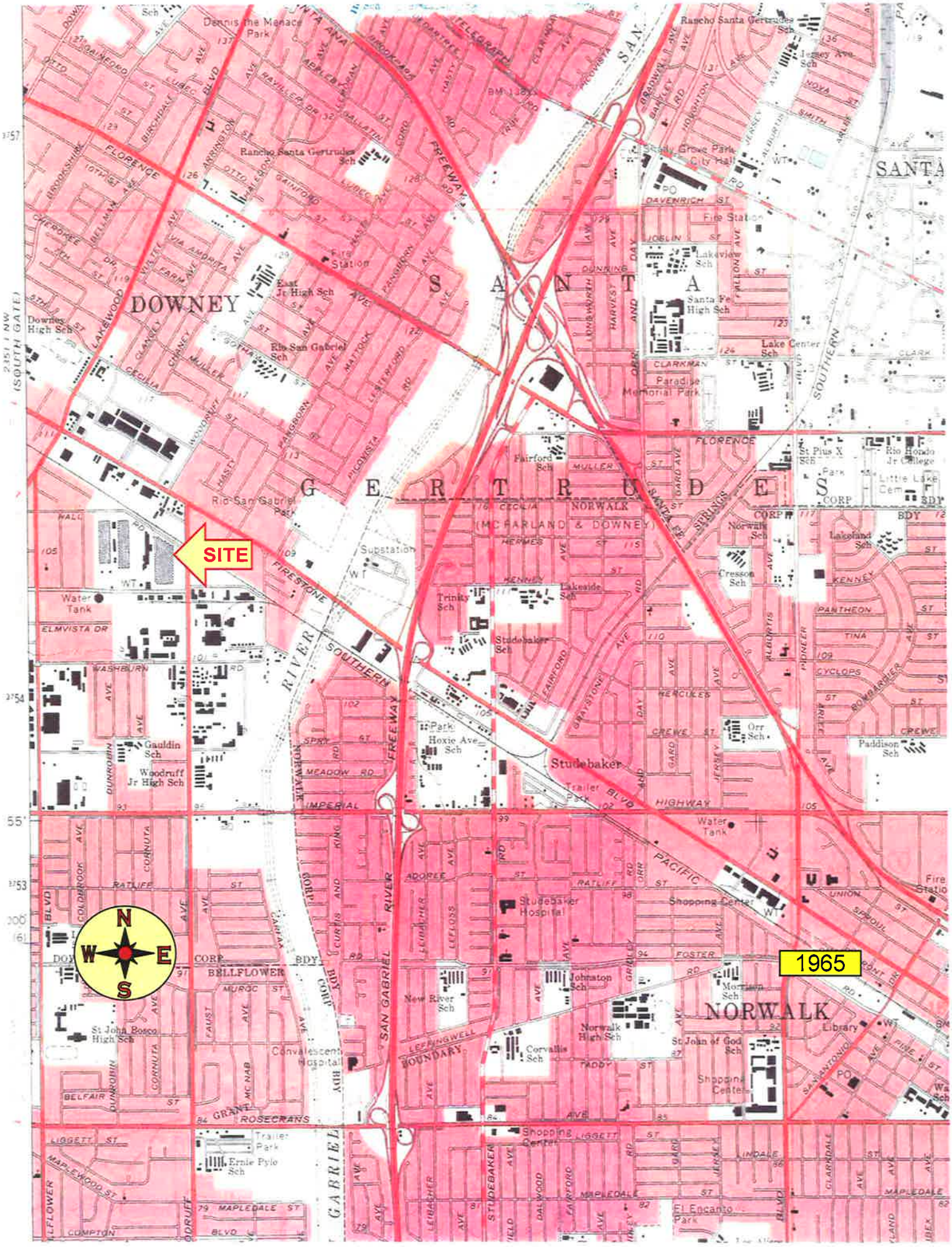

SITE
N
W
E
S
1982

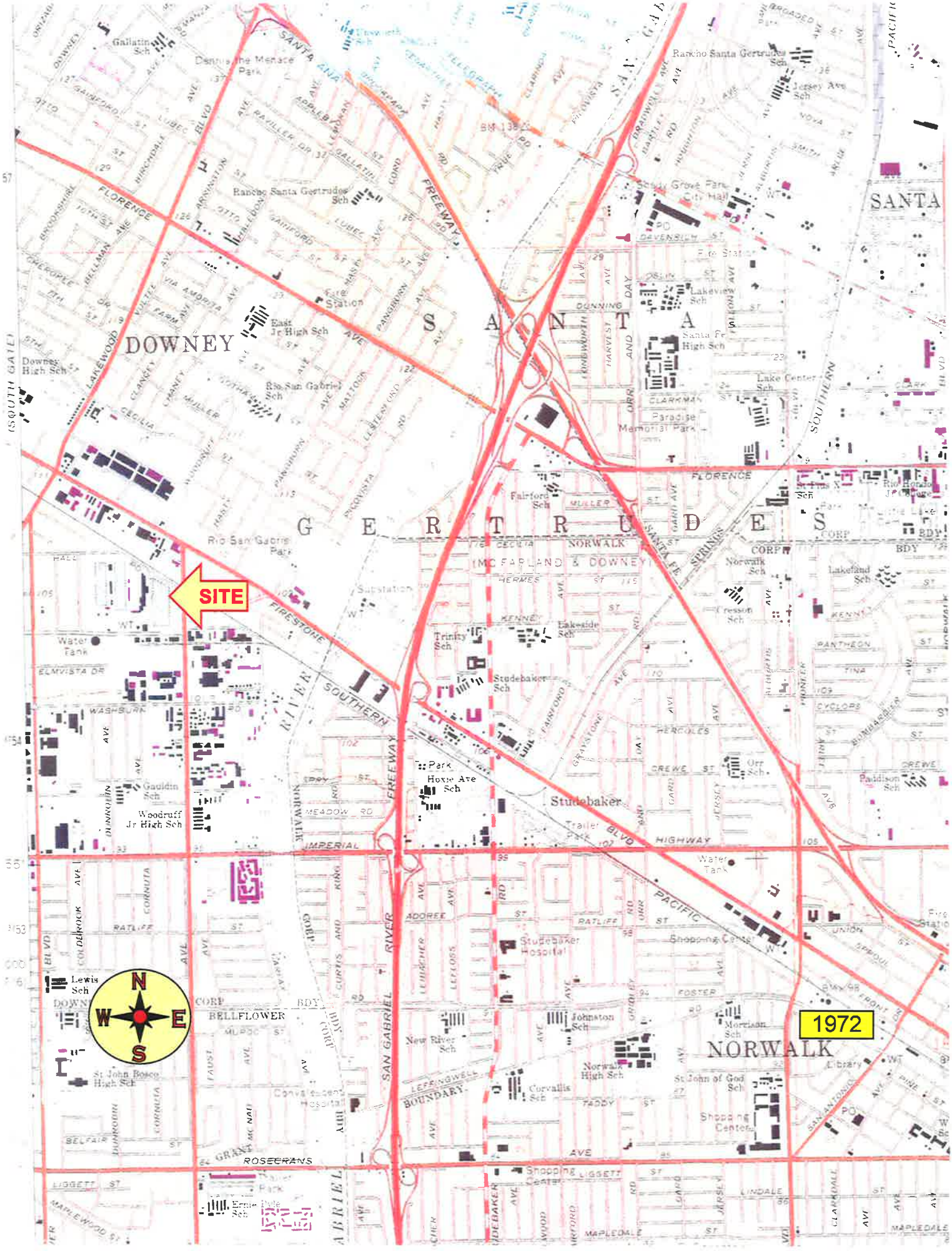

SITE
N
W
E
S
1994

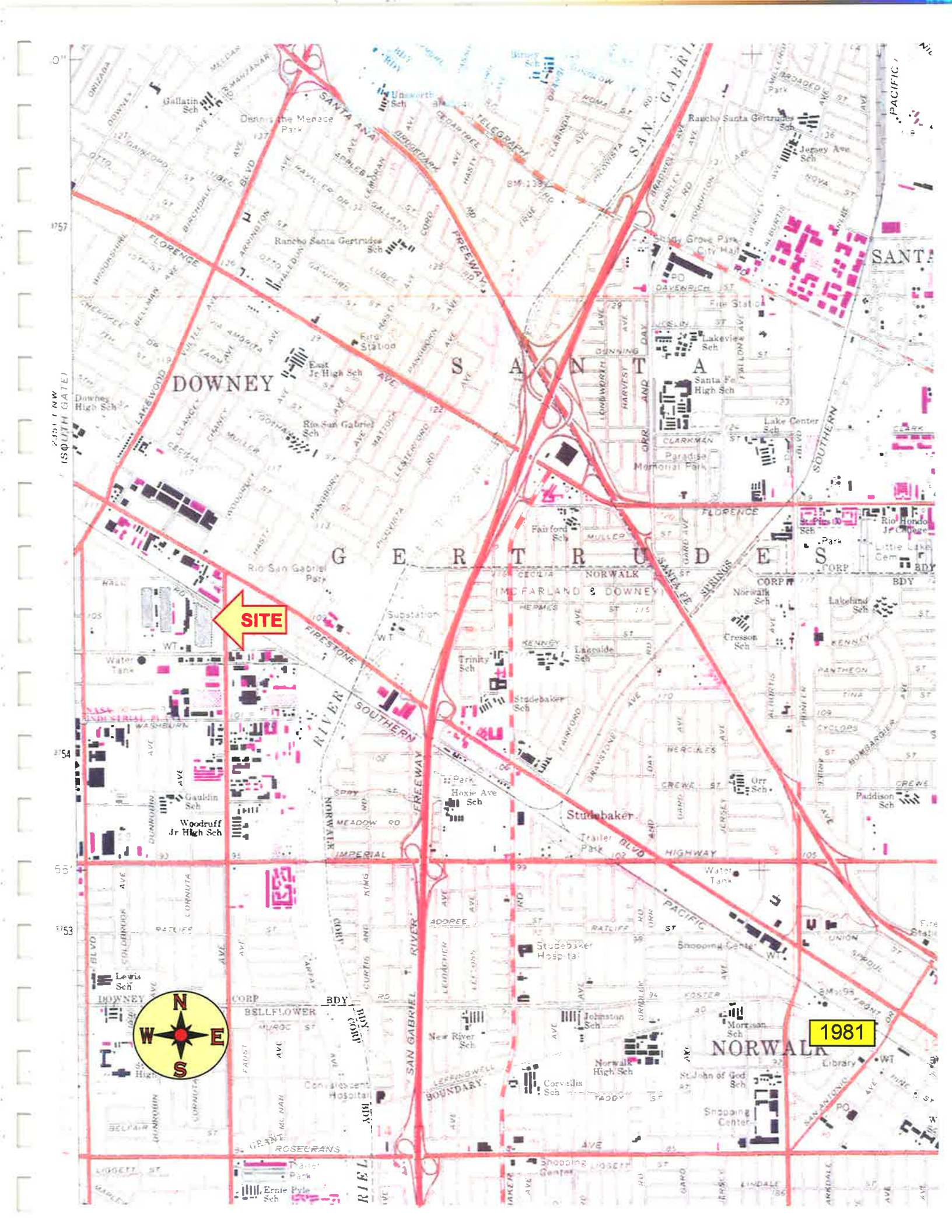

SITE
N
W
E
S
2002

TOPOGRAPHIC MAPS


SITE
1936
Gallatin Sch
Downey
Alameda Sch
Studebaker
SANTA GERTRUDES
LOS COYOTES
ITOS
PARAMOUNT AVENUE
LEXINGTON AND GALLATIN SCHOOLHOUSE ROAD
EASY STREET
FIRESTONE BLVD
DOWNEY AVENUE
RIVES ROAD
PACIFIC ROAD
WASHBURN CROSSING ROAD
IMPERIAL HIGHWAY
WOODRUFF AVE
SOMERSET AVE
CERRITOS AVE
FOSTER ROAD
ROSECRANS AVE
OLD DOWNEY CEMETERY
GABRIEL RIVER
SANTA FE SPRINGS
NORWALK 2 MI.
FULLERTON 12½ MI.
BELLFLOWER 1 MI.
(Whittier)
(Clearwater)
N
W
E
S


SITE
1965
DOWNEY
SANTA
GERTRUDE
NORWALK
Dennis the Menace Park
Rancho Santa Gertrudes Sch
Rio San Gabriel Park
Paradise Memorial Park
Water Tank
Substation
Studebaker
Studebaker Hospital
Shopping Center
Trailer Park
Convalescent Hospital
Ernie Pyle Sch
Woodruff Jr High Sch
Gauldin Sch
Hoxie Ave Sch
Lakeside Sch
Trinity Sch
Fairford Sch
Norwalk Sch
Cresson Sch
Orr Sch
Paddison Sch
Lakeland Sch
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Fire Station
Johnston Sch
New River Sch
Corvallis Sch
Norwalk High Sch
St John of God Sch
St John Bosco High Sch
Downey High Sch
East Jr High Sch
Rio San Gabriel Sch
Library
Shopping Center
El Encanto Park
Rio Hondo Jr College
St Pius X Sch
Little Lake Cem
Jersey Ave Sch
Heavy Grove Park
City Hall
Morrison Sch
Water Tank
Fire Station
FREEWAY
SOUTHERN PACIFIC
SAN GABRIEL RIVER
FLORENCE
FIRESTONE
IMPERIAL HIGHWAY
ROSECRANS
FOSTER
FLORENCE
CLARKMAN
DAVENRICH ST
JOSLIN ST
DUNNING ST
CECILIA
NORWALK
(MC FARLAND & DOWNEY)
HERMES
HENNEY
ELMVISTA DR
WASHBURN
SPRY ST
MEADOW RD
IMPERIAL
ADOREE
RATLIFF ST
MUROC
BELLFLOWER
CORP BDY
LEFFINGWELL BOUNDARY
FADDY ST
LIGGETT ST
MAPLEDALE ST
COMPTON BLVD
PANTHEON
TINA
CYCLOPS
KENNEY
CREWE ST
GRAYSTONE AVE
FAIRFORD AVE
ALBURTIS
PIONEER
BOMBARDIER
UNION
SPROUL
PONT DR
SAN ANTONIO
FINE ST
LINDALE
CLARENDALE
MAPLEDALE
ST
BLVD
AVE
RD
DR
CT
PL
WT
PO
CORP
BDY
Sch
Park
Fire Station
Water Tank
Trailer Park
Shopping Center
Hospital
Library
Substation
Convalescent Hospital
Rancho Santa Gertrudes Sch
Dennis the Menace Park
Rio San Gabriel Park
Paradise Memorial Park
Heavy Grove Park
City Hall
Jersey Ave Sch
Morrison Sch
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Fairford Sch
St Pius X Sch
Rio Hondo Jr College
Little Lake Cem
Norwalk Sch
Lakeland Sch
Cresson Sch
Orr Sch
Paddison Sch
Trinity Sch
Lakeside Sch
Studebaker Sch
Hoxie Ave Sch
Gauldin Sch
Woodruff Jr High Sch
Ernie Pyle Sch
New River Sch
Johnston Sch
Corvallis Sch
Norwalk High Sch
St John of God Sch
St John Bosco High Sch
Downey High Sch
East Jr High Sch
Rio San Gabriel Sch
Library
El Encanto Park
Studebaker Hospital
Shopping Center
Convalescent Hospital
Ernie Pyle Sch
Trailer Park
Water Tank
Fire Station
FREEWAY
SOUTHERN PACIFIC
SAN GABRIEL RIVER
FLORENCE
FIRESTONE
IMPERIAL HIGHWAY
ROSECRANS
FOSTER
FLORENCE
CLARKMAN
DAVENRICH ST
JOSLIN ST
DUNNING ST
CECILIA
NORWALK
(MC FARLAND & DOWNEY)
HERMES
HENNEY
ELMVISTA DR
WASHBURN
SPRY ST
MEADOW RD
IMPERIAL
ADOREE
RATLIFF ST
MUROC
BELLFLOWER
CORP BDY
LEFFINGWELL BOUNDARY
FADDY ST
LIGGETT ST
MAPLEDALE ST
COMPTON BLVD
PANTHEON
TINA
CYCLOPS
KENNEY
CREWE ST
GRAYSTONE AVE
FAIRFORD AVE
ALBURTIS
PIONEER
BOMBARDIER
UNION
SPROUL
PONT DR
SAN ANTONIO
FINE ST
LINDALE
CLARENDALE
MAPLEDALE
ST
BLVD
AVE
RD
DR
CT
PL
WT
PO
CORP
BDY
Sch
Park
N
W
E
S


SITE
1972
N
S
E
W
DOWNEY
SANTA
GERTRUDES
NORWALK
Studebaker
Rio San Gabriel Park
Rancho Santa Gertrudes Sch
East Jr High Sch
Downey High Sch
Fire Station
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Paradise Memorial Park
Fairford Sch
Norwalk Sch
Lakeland Sch
Cresson Sch
Trinity Sch
Lakeside Sch
Studebaker Sch
Hoxie Ave Sch
Gauldin Sch
Woodruff Jr High Sch
Water Tank
Lewis Sch
St John Bosco High Sch
Convalescent Hospital
Ernie Pyle Sch
Studebaker Hospital
Shopping Center
Johnston Sch
New River Sch
Norwalk High Sch
Corvallis Sch
St John of God Sch
Morrison Sch
Library
Orr Sch
Paddison Sch
Trailer Park
Substation
FLORENCE
NORWALK
IMPERIAL
HIGHWAY
SOUTHERN
FREEWAY
SAN GABRIEL RIVER
PACIFIC
BELLFLOWER
ROSECRANS
BOUNDARY
SANTA FE SPRINGS
SANTA ANA
FIRESTONE
LAKEWOOD
MC FARLAND & DOWNEY
Dennis the Menace Park
Gallatin Sch
Jersey Ave Sch
Shady Grove Park City Hall
Rio Hondo Jr College
Lakeside Sch
Trailer Park
Park
Ernie Pyle Sch
Shopping Center
Library


SITE
1981
DOWNEY
SANTA
GERTRUDES
NORWALK
N
S
E
W
Rio San Gabriel Park
Rio San Gabriel Sch
Rancho Santa Gertrudes Sch
Dennis the Menace Park
Gallatin Sch
Unsworth Sch
East Jr High Sch
Downey High Sch
Fire Station
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Paradise Memorial Park
Fairford Sch
Norwalk Sch
Lakeland Sch
Cresson Sch
Trinity Sch
Lakeside Sch
Studebaker Sch
Hoxie Ave Sch
Studebaker
Trailer Park
Orr Sch
Paddison Sch
Gauldin Sch
Woodruff Jr High Sch
Water Tank
Lewis Sch
Studebaker Hospital
Shopping Center
Johnston Sch
Morrison Sch
New River Sch
Norwalk High Sch
Corvallis Sch
St John of God Sch
Convalescent Hospital
Library
Ernie Pyle Sch
Trailer Park
Shopping Center
SANTA ANA FREEWAY
SAN GABRIEL RIVER FREEWAY
SOUTHERN PACIFIC
FLORENCE
FIRESTONE
NORWALK
IMPERIAL HIGHWAY
SAN GABRIEL RIVER
BELLFLOWER
ROSECRANS
BOUNDARY
SANTA FE SPRINGS
(SOUTH GATE)

ENVIRONMENTAL QUESTIONNAIRE

Due Diligence, Inc.

Architectural/Environmental/Seismic Consultants

San Diego Office
4909 Murphy Canyon Rd.
Suite 301
San Diego, CA 92123

858-569-0211 ph.
858-569-0275 fax

Environmental Site Assessment Questionnaire

To be completed by a "key site manager" or someone knowledgeable about the subject site.

Site Name: Downey Industrial Center, General Partnership
Site Address: 9300-9350-9400 Hall Road & 9301 Stewart & Grey
Date Provided: 3-26-07

The following Environmental Questionnaire must be completed in its entirety. Do not leave any question unanswered. If a question is not applicable to the site, answer NA.

General Facility Information

Key Personnel

Position	Name	Telephone Number	Years at Site
Owner	Managing Partner Jack W. Heger	323-727-1144	
Building Manager	Heger Realty Corp	323-727 -1144	
Other			
Other			

In the following tables describe the physical property, on-site services provided and tenants. Please include a map showing the subject site location and physical location of on-site facilities. Use additional sheets as required.

Property area: Acres:

Building Description (for each building)

Address/Number	Age	Square Footage	No. of Floors	Elevator	Number of Tenants
SEE ATTACHED "IMPROVEMENTS"					

C. Improvement Description

Architect: Unavailable

Year Built: Building Nos. 1, 2 and 3 were built in 1951. Building No. 4 was built in 1960.

Property Type: Building Nos. 1, 2 and 3 are metal industrial buildings. Building No. 4 is a wood frame and stucco office building.

Quality: Average

Condition: Average.

No. of Buildings: Four

Building No. 1:

Floor	Office	Mfg. & Whse.	Total
1	3,515	231,803	235,318
2	15,325	0	15,325
Total	18,840 (7.5%)	231,803	250,643

Building No. 2:
Tenant A: (Olin)

Floor	Office	Mfg. & Whse.	Total
1	32,400	56,559	88,959
2	diminished ~~32,400~~ 28,852 ±	15,466	47,866
Total	64,800 (47%)	72,025	136,825

Tenant B: (Duray)

Floor	Office	Mfg. & Whse.	Total
1	4,968	66,572	71,540
2	4,968	0	4,968
Total	9,936 (13%)	66,572	76,508

Building No. 3:

Floor	Office	Mfg. & Whse.	Total
1	0	21,170	21,170

Building No. 4:

Floor	Office	Mfg. & Whse.	Total
1	3,442	0	3,442
2	3,442	0	3,442
	6,884	0	6,884

Total Project Area:

Office	Mfg. & Whse.	Total
~~100,460~~	391,570	492,030

Source: The subject leases and measurements provided by our client.

Tenant Improvements:

Office

The office improvements consist of wood stud framing with painted gypsum wallboard partitions, fluorescent lighting, wall-to-wall commercial-quality carpeting, and vinyl tile in the restrooms. The office improvements in Building Nos. 2A (Olin Ordinance) and 4 (Western Pacific) are relatively new and in good condition. The office improvements in Building Nos. 1 (Hudd Dist.) and 2B (Duray, Inc.) are older and in average to fair condition. The subject office improvements are generally similar to most industrial properties in the market area.

Warehouse/Manufacturing

The warehouse area is improved with concrete floors, skylights (Bldg. No. 1), sprinklers and either bell-shaped halogen lighting or strip fluorescent lighting. The warehouse improvements are in average condition and are generally similar to most of the older buildings in the market area.

Loading:

Building No.	Ground Level Doors	Dock-High Loading Positions
1	4	72
2A	3	4
2B	2	5
3	3	4

Warehouse Clearance:

The truss height is 23' in Building No. 1 and 20 feet in Buildings Nos. 2 and 3.

Environmental Site Assessment Questionnaire

Current Tenant List (attach extra sheets if required)

Tenant Name	Operation	Dates
SEE ATTACHED		

Former Tenant List (attach extra sheets if required)

Tenant Name	Operation	Dates

HEGER
REALTY CORPORATION
Industrial & Commercial Real Estate

Risk ID#58, 60, 61 & 62

RENT ROLL – DOWNEY INDUSTRIAL CENTER

February 7, 2007

Tenant Name/Address	Sq. Ft.	Monthly/ Annual Rent	Lease Term	Option
Duray, Inc. and J. F. Duncan Industries, Inc. 9300 Hall Road Downey, CA 90241	107,814	$39,513.48 $474,161.76 (CPI 1/1/10)	2/1/00- 6/30/11	1-5 Year Opt. 7/1/11 CPI every 30 Mos. (Next CPI 1/1/10)
Use: Test, manufacturing, warehousing, office, engineering purposes.				
Duray Inc. 9301 Stewart & Gray Downey, CA 90241	73,052	$21,450.00 $257,400.00 (CPI 8/1/08)	2/1/00 - 1/31/11	1-5 Year Opt. 2/1/11-1/31/16
Use: Manufacturing and warehousing of restaurant equipment.				
Hudd Distribution 9400 Hall Road Downey, CA 90241	250,643	$99,406.00 $1,192,872.00 (CPI 6/1/07)	12/1/99 - 11/30/09	1-5 Year Opt. 12/1/09-11/30/14 CPI every 30 Mos.
Use: Warehousing and distribution.				
Western Pulp & Paper 9350 Hall Road Downey, CA 90241	30,084	$19,000.00 $228,000.00 (CPI 6/1/07)	12/1/98 - 11/30/09	No Further Options
Use: Bailing, sorting, warehousing and distribution of wastepaper and allied uses.				

(Rentroll\DIC 2-7-07)

Environmental Site Assessment Questionnaire

Do any of the following specific conditions exist on the site? If yes, please describe the condition.

Site Specific Conditions

Type	Yes	No	If Yes, Describe Location and Identify
Landfill, Dump Area, Junkyard		✓	
Surface Impoundment or Retention Ponds		✓	
Asbestos Containing Materials		✓	
Asbestos O&M Plan		✓	
Polychlorinated Biphenyls (PCBs)		✓	
Radon		✓	
Lead-based Paint (LBP)		✓	
Aboveground or Underground Storage Tank(s), including septic		✓	
Dry Cleaning		✓	
Container/Drum Storage Area(s)		✓	
Surface Staining		✓	
Wetlands		✓	
Flood Zone or Areas Subject to Flooding		✓	
Wells (on-site monitoring, water supply or injection)		✓	
Incinerator or Open Burning		✓	

Has any fire, demolition or construction activity been conducted during the current tenancy (ies)?

Yes No If yes, date and description:

Site History

Property purchase date (current owner):

Building construction date: 1951 to 1960 By:

Building remodeling and addition dates:

List the previous owner(s): William J. Moran Date:

Date:

Date:

Describe past uses of the site and approximate dates of each use:

Date:

Date:

Environmental Site Assessment Questionnaire

Has any environmental work or reporting been conducted at the subject site? (Yes) No

Type of activity? Phase I

Date: Jan 1996 By: National Environmental Consultants, Inc.

Date: By:

Has any environmental work or reporting been conducted at neighboring properties? Yes No

Type of activity? Unknown

Date: Address:

Date: Address:

Was any demolition or construction activity required prior to the construction of the current improvements? Yes (No)

If yes, date and description:

Is there any past experience or operation of any underground or aboveground storage tanks on the subject site? Dec 1994 (Yes) No

If yes, please complete the following table:

UST/AST Information

Material Stored	Size	Age	Leak Detection	Corrosion Protection	Overfill Protection

Is there any past existence or operations of an emergency electrical generator and/or fire pump on the subject site? Yes (No)

Fuel Type?

Describe fuel storage and location:

Is there any past existence or operation of automotive fueling, servicing, repairing, painting or washing activities on the subject site? Yes (No)

Describe the operations and disposition of waste products:

Environmental Site Assessment Questionnaire

Is there any past existence or operation of hydraulically operated elevators, automobile hoists or truck dock levelers on the subject site? Yes No

Describe location: Unknown

Have any historic operations on the subject site involved the generation, manufacture, processing, transportation, treatment, storage or handling of any of the following:

Petroleum products (fuels, solvents, waste oils, etc.)	Yes	(No)
Asbestos	Yes	(No)
Lead-based Paint	Yes	(No)
Hazardous Materials	Yes	(No)
Biohazardous Materials	Yes	(No)
Polychlorinated Biphenyls (PCBs)	Yes	(No)
If yes, describe the operations:		

Solid/Hazardous Waste Generation and Disposal

Identify all waste materials that the existing facility generates in addition to general municipal waste (garbage). Please identify recycles, hazardous or special waste products including, but not limited to, paper, cardboard, grease, solvents, waste oil, dry-cleaning solvents, medical wastes, photographic and x-ray development chemicals, lead-acid storage batteries, metals, tires, etc.

Waste Generation and Disposal

Waste Category	Description of Waste	Method of Storage	When Removed	Disposal Contractor
General				
Construction Debris				
Recyclable*				
Dry Cleaning*				
Other Hazardous*				
Waste Oil*				
Solvents*				
Other*				

None To Owners Knowledge

*Provide a copy of the most recent waste disposal records.

Are any former tenants generators of hazardous waste? Yes (No)

If yes, describe the waste and their operation:

Environmental Site Assessment Questionnaire

Does the current owner or operator (or previous owner/operator) perform the following activities?

Discharge wastewater (including storm water, process and nonrocess water or sanitary waste?	Yes	(No)
Identify what is released and quantities:		
Store solid waste?	Yes	(No)
Store hazardous waste?	Yes	(No)
Waste water treatment?	Yes	(No)
Waste disposal operations?	Yes	(No)

Chemical and Material Storage

Chemical and Material Storage

Material/Chemical	Yes	No	MSDS	Quantity Stored	Description and Supplier
Flammable Material					
Gasoline and Fuel					
Dry Cleaning Solvent					
Hydraulic Oil					
Waste Oil					
Automotive Oil					
Grease					
Paints					
Solvents					
Corrosives					

Notification and Compliance

Has the owner of the property taken any of the following actions relative to the subject site?

Prepared a Chemical Safety Contingency Plan?	Yes	(No)
Filed an Emergency and Hazardous Chemical Inventory Form pursuant to the Federal Emergency Planning and Community Right-to-Know Act of 1986.	Yes	(No)
Filed a Toxic Chemical Release Form pursuant to the Federal Emergency Planning and Community Right-to-Know Act of 1986.	Yes	(No)
Maintained Material Safety Data Sheets (MSDS) on site.	Yes	(No)
Prepared a Spill Prevention Control and Countermeasure (SPCC) plan?	Yes	(No)
Conducted leak testing of storage tank piping and piping systems?	Yes	(No)

Please include copies of the above documents with the Questionnaire

Has the owner or operator of any facility on the subject site or the subject site itself been the subject of any of the following state or federal government actions?

Written notification regarding known, suspected or alleged contamination on or emanating from the subject site?	Yes (No)
Environmental enforcement case or lawsuit.	Yes (No)
Environmental Notice of Violation for any activities.	Yes (No)
Names as Potentially Responsible Party (PRP) or Responsible Party in any environmental action.	Yes (No)

If yes to any of the above, include documentation of the action and its resolution.

Environmental Releases during Ownership

Has any situation occurred at this site or neighboring sites that resulted in a reportable "release" of any hazardous substances or petroleum as required under state of federal laws.	Yes (No)
If yes, please describe:	
Have any hazardous substances or petroleum come into direct contact with the ground, ground water or surface water at this site?	Yes (No)
If yes, please describe:	
If the answers to questions above are "Yes", have any of the following actions or events been associated with a release on the subject site or neighboring sites?	Yes (No)
Use of a cleanup contractor to remove or treat materials including soils, pavement or other surficial materials.	Yes No
Designation, by State or Federal EPA of release as "significant".	Yes No
Sampling and analysis of soils, ground or surface water.	Yes No
Temporary or more long-term monitoring of ground water at or near the site.	Yes No
Impaired usage of an on-site or nearby water well because of offensive characteristics of the water.	Yes No
Coping with fumes from subsurface storm drains, sumps or basements, etc.	Yes No
Signs of unusual stains, damaged vegetation or substances leaching out of the ground along the base of slopes or at other low points on or immediately adjacent to the site.	Yes No
Is the facility currently operating under an environmental variance granted by a state of federal regulatory agency?	Yes No
Do you have any environmental concerns regarding the past or current use of the subject or adjoining sites?	Yes No
If yes, describe:	

Signed: Downey Industrial Center Date: 3-26-07

Name: Title:

Company:

Please return completed Questionnaire ASAP via facsimile or next day delivery to:

AES Due Diligence, Inc.
4909 Murphy Canyon Rd, Ste. 301
San Diego, CA 92123
858-569-0211 phone
858-569-0275 fax

ENVIRONMENTAL DATABASE REPORT

(PLEASE SEE COPY ON CD)

CITY DIRECTORY ABSTRACT

The EDR-City Directory
Abstract

Downey Industrial Center
9350 Hall Road
Downey, CA 90241

Inquiry Number: 1895062.4

Thursday, April 05, 2007

The Standard in Environmental Risk Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report 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 availabl e city directory data. For each address, the directory lists the name of the corresponding occupant at five yea r intervals.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety o f public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNE SS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRO NMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGL IGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPEC IAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provid ed in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providi ng any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any p roperty. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2007 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1971 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: April 5, 2007

Target Property:
9350 Hall Road
Downey, CA 90241

Year	Uses	Source
1971	Street Not Listed in Research Source	Haines Criss-Cross Directory
1975	Street Not Listed in Research Source	Haines Criss-Cross Directory
1980	Street Not Listed in Research Source	Haines Criss-Cross Directory
1985	Address Not Listed in Research Source	Haines Criss-Cross Directory
1990	Address Not Listed in Research Source	Haines Criss-Cross Directory
1995	Address Not Listed in Research Source	Haines Criss-Cross Directory
2000	Address Not Listed in Research Source	Haines Criss-Cross Directory
2005	Address Not Listed in Research Source	Haines Criss-Cross Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Downey, CA 90241

Year	Uses	Source
1971	Street Not Listed in Research Source	Haines Criss-Cross Directory
1975	Street Not Listed in Research Source	Haines Criss-Cross Directory
1980	Street Not Listed in Research Source	Haines Criss-Cross Directory
1985	Address Not Listed in Research Source	Haines Criss-Cross Directory
1990	Address Not Listed in Research Source	Haines Criss-Cross Directory
1995	Address Not Listed in Research Source	Haines Criss-Cross Directory
2000	**Hall Road**	Haines Criss-Cross Directory
	Office Building (2 Occupants) (9215)	Haines Criss-Cross Directory
	Office Building (2 Occupants) (9236)	Haines Criss-Cross Directory
	Omniteam Inc (9300)	Haines Criss-Cross Directory

Year	Uses	Source
2000	Hudd Distribution Services Inc (9400)	Haines Criss-Cross Directory
	No other addresses in 9200 -9499 range	Haines Criss-Cross Directory
2005	**Hall Road**	Haines Criss-Cross Directory
	Office Building (2 Occupants) (9215)	Haines Criss-Cross Directory
	Office Building (2 Occupants) (9236)	Haines Criss-Cross Directory
	Omniteam Inc (9300)	Haines Criss-Cross Directory
	Hudd Distribution Services Inc (9400)	Haines Criss-Cross Directory
	No other addresses in 9200 -9499 range	Haines Criss-Cross Directory

Due Diligence, Inc.
Architectural/Environmental/Seismic Consultants

December 5, 2016

Downey Industrial Center, LLC
c/o Heger Industrial
5701 South Eastern Avenue, Suite 100
Los Angeles, California 90040

Re: Phase I Environmental Site Assessment
Downey Industrial Center
9300, 9350 & 9400 Hall Road
9301, 9333 & 9399 Stewart and Gray Road
Downey, CA 90241
Project No. 16004157

Dear Sir or Madam:

In accordance with our accepted proposal, AES performed a walk-through survey of the above-referenced property on November 22, 2016. There are two original Reports and two compact discs provided for your use. AES Due Diligence, Inc., is not affiliated with the client or any other parties to this transaction.

We appreciate the opportunity to provide consulting services to you. If you have any questions, please contact Bill Peden at our Midwest Regional office at (847) 498-4780 or our Corporate Office at (858) 569-0211.

Very truly yours,

AES DUE DILIGENCE, INC.

Robert Presta, MBA
Licensed Architect

RP:WP/kj

Enclosures

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared for

Downey Industrial Center, LLC

Phase I Environmental Site Assessment

Downey Industrial Center
9300, 9350 & 9400 Hall Road and 9301, 9333, 9399 Stewart and Gray Road
Downey, CA 90241
December 5, 2016

Prepared by

AES Due Diligence, Inc.
Architectural/Environmental/Seismic Due Diligence Consultants
9089 Clairemont Mesa Boulevard, Suite 104
San Diego, California 92123

(877) 732-3833 – Toll Free
(858) 569-0211 -Tel
(858) 569-0275 - Fax

AES Regional Offices

Midwest Region	***Mountain States***	***Southern California***
(847) 498-4780	*(303) 648-9897*	*(949) 363-0058*
Northwest Region	***Texas Region***	***Northern California***
(503) 296-0711	*(972) 754-0673*	*(707) 996-5529*

TABLE OF CONTENTS

EXECUTIVE SUMMARY

I . IDENTIFICATION 3

II. OBJECTIVE AND SCOPE 4

III. PROPERTY DESCRIPTION 8

IV. SITE HISTORY 11

V. ENVIRONMENTAL SITE ASSESSMENT 15

VI. DATABASE RECORDS REVIEW 18

VII. ASTM NON-SCOPE ITEMS 28

VIII. CONCLUSIONS 30

IX. INTERVIEWS 32

X. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS 33

ATTACHMENTS
Vicinity Map
Site Plan T-1
Site Photographs
EDR Database Report (Please see CD)
City Directory Abstract
Vapor Encroachment Screen (Please see CD)
Historic USGS Topographic Maps
Aerial Photographs
Tank Removal Permit and Case Closure Letter (August 20, 1996)
ACM O&M Plan from 2007 (Please see CD)
ACM O&M Letter 2008
Previous ESA 2007 (Please see CD)
Environmental Questionnaire

EXECUTIVE SUMMARY

Downey Industrial Center
9300, 9350 & 9400 Hall Road and 9301 Stewart and Gray Road
Downey, CA 90241
Project No. 16004157

ISSUE	ENVIRONMENTAL CONDITION IDENTIFIED					ASSESSMENT				
	NONE	REC	CREC	HREC	*de mini mis*	ACCEPTABLE	O&M	PHASE 2	PHASE 3	COST
Historic Use				X		X				
UST\AST				X		X				
Chemical Use, Storage or Disposal	X					X				
Waste Storage or Disposal	X					X				
PCBs	X					X				
Environmental Records Review	X					X				
Adjoining Property	X					X				
Stains or Odors	X					X				
Solid Waste or Fill	X					X				
Septic Fields, Wells or Drywells	X					X				
Pits, Ponds, Lagoons	X					X				
Vapor Encroachment	X					X				
NON-SCOPE CONSIDERATIONS										
Asbestos		X				X	X			O&M Plan in place
Lead Based Paint					X	X				
Lead in Water	X					X				
Mold	X					X				
Wetlands	X					X				
Radon	X					X				

AES Proprietary Information

I IDENTIFICATION

Subject Site: Downey Industrial Center

Location: 9300, 9350 & 9400 Hall Road and
9301, 9333, 9399 Stewart and Gray Road
Downey, CA 90241

Observation Date: November 22, 2016

Site Contact: Randy Scott
(323)-727-1144

Client: Heger Industrial

Environmental Professional Statement

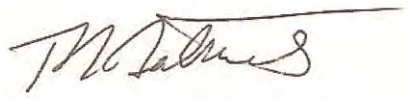
We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a site of the nature, history, and setting of the subject site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:

William Peden
Registered Professional Engineer

Reviewed by:

Timothy K. Dahlstrand
Managing Director of Environmental Services



II OBJECTIVE AND SCOPE

Objective

The purpose of this Phase I Environmental Site Assessment is to identify recognized environmental conditions that may have an impact on the subject site, using readily available sources of information, interviews and field observations. It is our understanding the Client intends to sell the site.

Procedures

This Assessment is a Phase I Environmental Site Assessment (ESA) for the improvements located at 9300, 9350 & 9400 Hall Road and 9301 Stewart and Gray Road in Downey, CA 90241, performed in general accordance with ASTM Designation E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and following the Scope of Work outlined in AES Due Diligence, Inc.'s proposal. AES Due Diligence, Inc. (AES) conducted on-site observations on November 22, 2016 and observed adjacent properties. Environmental Data Resources, Inc. (EDR) conducted database searches following ASTM guidelines. Such searches are generally limited to a radius of one mile from the subject site. Additionally, ASTM Non-Scope items are addressed in this Assessment, including Asbestos, Lead-Based Paint, Radon Gas, Wetlands and Lead in Drinking Water.

Limitations

The purpose of the Phase I ESA of the site is to address the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. If requested by the Client, certain non-scope business environmental risks are addressed in the Assessment. The Phase I ESA is intended to allow the Client to satisfy one of the requirements to qualify for the innocent landowner defense, contiguous property Owner or bonafide prospective purchaser limitations on CERCLA liability: i.e. the practice that constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC § 9601(35)(B). The Phase I ESA does not address whether requirements in addition to appropriate inquiry were met in order to qualify for CERCLA's innocent landowner defense.

The objectives of the Phase I ESA are as follows:

1. Evaluate if recognized environmental conditions (REC), controlled recognized environmental condition (CREC), historic recognized environmental conditions (HREC) or *de minimis* conditions are present on the site.

2. Provide sufficient documentation of sources, records and resources utilized in conducting the Phase I ESA.

3. Prepare a professional opinion regarding the presence of RECs at the site.

Special Terms and Conditions

The Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the site.

A Phase I ESA attempts to identify the environmental conditions of the site and vicinity. Environmental conditions and regulations are subject to change and re-interpretation. Current conditions or regulatory requirements should not be assumed to continue to represent conditions at some future time. This Assessment represents AES's professional judgments and opinions based on information presented in this Assessment and no warranty, either expressed or implied, are contained herein.

Limitations and Exceptions of Assessment

The surface conditions of the site were noted by visual observations or information obtained during interviews. No physical testing, soil/groundwater sampling or laboratory analysis was included unless otherwise noted in the Assessment.

The executive summary was prepared for the convenience of the users of this Assessment. This summary does not contain all the information presented in this Assessment and, therefore, the entire Assessment should be read to assure all pertinent information is transmitted.

AES performed the Phase I ESA of the site in substantial conformance with the scope and limitations of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* unless otherwise noted in the Assessment. Certain environmental conditions may exist on a site that are beyond the scope of the Standard, but may warrant consideration. Per the Standard, this environmental site assessment is presumed to be valid for a specific time limit as defined in ASTM Designation E-1527-13.

AES utilized the following methods to complete the reconnaissance of the site. AES observed the site and adjoining properties for indicators of existing or potential recognized environmental conditions. The site walkover consisted of walking the site boundary and several transects across the site. For a site with buildings, the accessible areas of the buildings were entered and observed. Please note that AES did not look under floors, above ceilings or inside walls. The adjoining properties were observed from the periphery of the site, if possible. The observations were documented with representative photographs. No limiting conditions were encountered during the course of the Phase I ESA.

Documents

Our Assessment represents our professional experience and judgment, and a good faith effort to obtain all available information. Documents and data provided by the Client, its designated representatives, or other interested parties, and consulted in the preparation of this Assessment, have been reviewed and may be referenced herein, with the understanding that AES assumes no responsibility or liability for their accuracy or for the withholding by any of the involved parties of any assessments or other information that could affect the transaction.

Intended Use

AES Due Diligence, Inc. is not affiliated with the borrower or any other parties to this transaction. This Assessment is intended to be used in its entirety. No portion of it may be deleted or used out of context without the written consent of AES. The opinions and information contained in this Assessment are time sensitive and represent our evaluation of the environmental site conditions at the time the services were provided. This Assessment was prepared for a limited use involving a single transaction, as set forth herein, and may not be used for any other purpose without the written consent of AES.

Proprietary Information

Field data, field notes, and other data and documents assembled by AES to produce this Assessment represent the work product of AES's training, experience and professional skill. This information belongs to and remains the property of AES Due Diligence, Inc.

Reliance

This Report is for the exclusive use of Downey Industrial Center, LLC or its assigns, and Heger Industrial. No other party shall have the right to rely on any service provided by AES Due Diligence, Inc. without prior written consent.

Definitions

ASTM defines a Recognized Environmental Condition (REC) as "the presence or likely presence of a hazardous substance or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment."

A Controlled Recognized Environmental Condition (CREC) is defined as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, of meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

A Historic Recognized Environmental Condition (HREC) is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

A *de minimis* environmental condition "generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies." Conditions determined to be *de minimis* are not a REC.

Business Environmental Risk (BER) is a risk, which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of the parcel of commercial real estate, not necessarily limited to those environmental issues investigated in this Phase I ESA. Business environmental risk issues may involve addressing one or more non-scope considerations.

III PROPERTY DESCRIPTION

Site Visit and Interviews

On November 22, 2016, AES visited the subject site and reviewed the fixed facility. The property management provided an escort, Mr. Randy Scott, who accompanied William Peden of AES during the interior viewing portions of the site visit.

AES observed the interiors and contents of representative occupied tenant spaces, common areas and maintenance areas and noted operations and activities at the subject site. AES looked for suspect asbestos-containing building materials, stored chemicals, underground and aboveground storage tanks, unusual surface appearance, wetlands and other issues that may indicate environmental conditions on the subject site. AES noted the location of on-site electrical power transformers and storm drainage structures where these were encountered. AES observed sites adjoining the subject site and areas within the immediate vicinity of the subject site.

AES photographed selected features at or near the subject site to support this written Assessment. The photographs are identified, described and appended to this Assessment.

Subject Site

The project is situated on a tract of land estimated to be approximately 29.16-acres. The property consists of three parcels generally bounded by Hall Road on the north and northeast, Stewart and Gray Road on the south and Woodruff Avenue to the east (not including the parcels that front Woodruff Avenue). The property and buildings are within the City of Downey, California. The original improvements were reportedly completed in 1951 and 1960.

According to the EDR Database Report, the topography of the site is nearly level and slopes to the south. The site has a maximum surface elevation difference of approximately three-feet. Additional slopes are provided around the improvements for storm water drainage. On-site, storm water drainage is by sheet flow to catch basins or curb inlets connected to the Downey storm sewer system.

The majority of the parking and driveway areas are generally asphaltic concrete paved, however, several areas have concrete pavement. Entry driveway aprons, rubbish dumpster pads, and public and private sidewalks are concrete paved.

Pad-mounted, utility company owned electrical transformers are provided on site. The Southern California Edison Company is the electrical supplier and is responsible for transformer-related incidents. Natural gas service is provided by the Southern California Gas Company. The site is provided with municipal water and sanitary sewer services from buried utilities along the adjacent thoroughfares.

Buildings

The property has four primary single-story buildings. The Owner indicates that there is a total of 442,405-square feet (sf) of floor area with a total footprint of 411,310-sf. The center is occupied by multiple tenants. The original improvements for buildings 1, 2 and 3 were reportedly completed in 1951. Building 4 was reportedly added in 1960.

Three light steel industrial buildings and one wood framed office building are on site and are supported on shallow foundations. The painted exterior walls of the buildings are covered with various finishes including stucco, corrugated steel, CMU and brick veneer. No basements are provided at the project. The roofing reportedly consists of a gradient sloped, built-up bituminous roofing system with a mineralized capsheet as a surfacing material installed on corrugated metal panels mechanically fastened to the roof structure. The buildings are reportedly provided with pad-mounted and roof-mounted HVAC units. There is a hydraulically driven elevator in Building 9300. The roofs were observed from grade level.

Adjoining Properties

Properties immediately adjoining the subject site are listed in the following table. The adjoining properties are located in Downey, CA 90241.

Adjoining Properties			
Name	**Operation**	**Direction from Site**	**Concerns**
The Ultimate Freight Management & Logistics 9215 Hall Road	Transportation	North	None
Southern Pacific Railroad tracks	Transportation	Northeast	None
9368-9420 Stewart and Gray Road and 11911 Woodruff Avenue	Industrial Uses	South	LUST, UST (9368 Stewart and Gray) RCRA Generator (11911 Woodruff)
11711 & 11911 Woodruff Road	Industrial, Commercial Uses	East	None
9220 - 9268 Hall Road	Commercial, Industrial Uses	West	SLIC, UST, RCRA Generator (9236 Hall Road)

Facilities with environmental concerns will be discussed in the Records Review section of this report. Because of the controlled surface drainage and the predominantly non-hazardous uses on the remaining adjoining properties, they do not, in our opinion, pose a significant environmental risk to the subject site.

Vicinity

AES observed other properties located near the subject site for current uses or conditions that might be environmentally significant. The local area properties observed by AES did not appear to be engaged in environmentally significant activities.

Topography and Hydrogeology

AES reviewed the United States Geological Survey (USGS) Topographic Map, which indicates that the subject site is approximately 110-feet above mean sea level. AES observed that the general drainage flows in a southerly direction across the surface of the site. No substantial grade changes appear to have been made to the subject site when compared to the topography of surrounding sites. A copy of the USGS topographic map that covers the subject site is appended.

Geology and Surficial Soils

According to the EDR Database Report, the subject site is located above Cenozoic era stratified sequence bedrock. The depth to bedrock is unknown.

Also according to the information obtained through the EDR Report, subject site is located in an area of loamy soils. These soil types have moderate permeability and would be expected to have moderate susceptibility as a result of surface spreading of wastes, depending upon local soil conditions.

Surface and Ground Water Flow

The regional surface water flows in a southerly direction, according to the EDR REport. The ground water flow in the area is assumed to be to the south. The depth to ground water is unknown.

IV SITE HISTORY

A prior Environmental Report was provided to AES for review. The prior Environmental Report was produced by AES Due Diligence and a copy is appended. AES also issued an Asbestos Operations and Maintenance Plan in conjunction with the Environmental Report. A copy of the Asbestos Operations and Maintenance Plan is appended. AES conducted a limited historical review regarding the subject site. The following summarizes AES's review of readily available historical records and maps gathered from government agencies and commercial enterprises regarding the subject site history and use. This should not be considered a listing of all available information.

Interviews

Mr. Scott did not have personal knowledge of the uses of the subject site prior to the construction of the current improvements in 1951. The previous ESA indicated that the site was previously used as vacant land, a munitions factory and Aerojet General manufacturing facilities.

Historic Site Tenants

City directory research was not available for the subject site.

Building Department Records Review

The original building shell permits and current Certificates of Occupancy are not on file at the city. The buildings were constructed before the city was incorporated and the records may have been lost or misplaced.

Aerial Photograph and Historical Map Review

Aerial photographs are reviewed to identify past site use and areas of environmental concern on the subject site. AES has reviewed aerial photographs of the subject site. The photographs were obtained from GeoSearch. Copies of the aerial photographs that were obtained and reviewed by AES are appended. Please see chart below for the specific dates and description summary.

Beginning in the 1860s, the Sanborn Fire Insurance Company, and others, prepared maps that depict site improvements and commercial activities in many metropolitan areas in the United States. AES attempted to obtain fire insurance maps, specific to the site, to review as part of this Phase I Environmental Site Assessment. No Sanborn map coverage is available for the area.

Historical maps provide information concerning historical site boundaries and improvements. Historic Topographic Maps were reviewed for the site, please see the chart below for enumeration of years and findings.

The historical maps reviewed were obtained from GeoSearch, and are appended.

Site History Summary		
Date	**Record Type**	**Land Use**
1928	Aerial Photograph	Agricultural uses
1936	Historical Topographic Map	Undeveloped land
1938	Aerial Photograph	Agricultural uses
1947	Aerial Photograph	Agricultural uses
1952	Aerial Photograph	Four current structures and existing roads
1960	Aerial Photograph	Four current structures and existing roads
1965	Historical Topographic Map	Four current structures and existing roads
1968	Aerial Photograph	Current structures, existing roads and some neighboring buildings
1972	Historical Topographic Map	Current structures, existing roads and some neighboring buildings
1976	Aerial Photograph	Current structures, existing roads and some neighboring buildings
1981	Historical Topographic Map	Current structures, existing roads and some neighboring buildings
1982	Aerial Photograph	Current structures, existing roads and some neighboring buildings
1994	Aerial Photograph	Current structures, existing roads and most neighboring buildings
2002	Aerial Photograph	Current structures, existing roads and most neighboring buildings

Based on AES's interpretation of the available documentation noted above the site was undeveloped land since at least 1928 until the first developed use in 1951 with the current improvements. No evidence of long-term fill activity, surface scarring, staining or other issues of environmental concern were visible in the aerial photographs during the review process.

Directories

City directories provide information concerning historical site ownership and use. City Directories were reviewed for the years 1971 through 2010 and no significant information was found.

Title Records Review

A title records review, or chain-of-title, can be used to identify prior ownership of a property and to evaluate previous activities or operations in terms of environmental significance. Significant easements, covenants, restrictions and environmental liens may be indicated in title records. A chain-of-title regarding the subject site was not provided to AES for review as part of this Phase I Environmental Site Assessment.

Document Review

The following were provided for review:

- "Phase I Environmental Site Assessment - Downey Industrial Center 9300, 9350, 9400 Hall Road and 9301, 9333, 9399 Stewart Road Downey, CA 90241" prepare by AES Due Diligence dated April 13, 2007.

  This report was prepared for RiverSource Investments LLC following the guidelines of ASTM 1527-05. The report concluded:

  "Based on site observations, interviews and review of available documents and the database records search, AES concludes that several HRECs were identified at the subject site. The HRECs include the historic UST at the site, the 1994 LUST incident (closed on August 20, 1996) and historic site use (manufacturing facility). AES recommends no additional investigation at this time.

  Based on site observations, interviews and review of available documents and the database records search, AES concludes that one REC was identified at the subject site. Based on the building age, asbestos is suspected at the site. These materials can be managed in place using an asbestos operation and maintenance plan. AES recommends no additional investigation at this time.

  Based on site observations, interviews and review of available documents and the database records search, AES concludes that one *de minimis* condition was identified at the subject site. Based on the age of the buildings, lead based paint is suspected at the site. AES recommends no additional investigation at this time."

- "Underground Storage Tank Case Closure – Western Pacific Pulp and Paper 9350 Hall Road Downey CA" prepared by California Regional Water Quality Control Board dated August 20, 1996.

  This letter was addressed to Mr. Jack Wunderlich. The letter concludes that "based on the information provided and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required."

- An Asbestos O&M Plan, prepared by AES Due Diligence, Inc and dated April 23, 2007. A copy of this report is appended.

- An Asbestos Follow Up Letter prepared by AES Due Diligence, Inc. and dated July 25, 2008. The letter was addressed to RiverSource Investments, LLC.

  This letter describes the status of the suspect Asbestos Containing Material as being unchanged. A copy is appended.

V ENVIRONMENTAL SITE ASSESSMENT

Fixed Facilities Review

The improvements observed by AES on November 22, 2016, were reported to have been completed in 1951 and 1960. Minor repair activities to meet maintenance requirements and tenant needs are ongoing. Recent improvements have included tenant space build outs, exterior façade construction and painting, according to Mr. Scott.

Mr. Scott indicated that no asbestos containing materials or lead based paint were utilized in the above noted improvements. In addition, he stated that landscape maintenance services are performed by outside contractors. No landscape equipment is stored on the subject site. Landscape equipment and automotive maintenance is not performed at the subject site.

Site Tenant Activities

AES reviewed the current tenant for operations that may use regulated materials or generate waste products. AES observed the accessible interior and exterior common areas and maintenance areas. The site is 100% occupied by multiple tenants.

AES confirmed the nature of tenant activities in the buildings, which primarily consists of manufacturing, industrial and warehouse uses. AES entered and observed the activities at sample areas of the buildings, including the EJ Lauren, Duray, Omniteam, 88 Logistics and Western Pacific Pulp & Paper areas. Also visited were common areas and mechanical rooms. Roofs were observed from grade level.

Upon review of the activities at the above locations, AES found no specific environmental concerns regarding these operations.

On-Site Chemical and Petroleum Product Storage

AES looked for chemicals, hazardous substances, petroleum-based fuels and lubricants, and janitorial and cleaning supplies stored on the subject site. Small amounts of used machine oil, lacquer thinner, solvents, truck filters, antifreeze, and used motor oil are disposed of intermittently. No other chemicals or hazardous substances were observed on the subject site other than shelf quantities of commonly available janitorial and cleaning supplies.

Waste Disposal Practices

AES identified the current wastes generated at the subject site. According to AES's observations, general and recycled wastes are disposed of from the subject site. Areas of waste storage appeared to be well kept and free of debris.

General and manufacturing wastes are collected, placed in dumpsters, removed from the subject site on an as-needed basis, and disposed of by contracted firms.

Small amounts of regulated waste haulers are contracted by the Duray/J.F.Duncan and OmniTeam tenants to dispose of hazardous materials on an as needed basis. Hazardous Waste Manifests were requested from the tenants and have not been received to date.

Underground and Aboveground Storage Tanks

Owners and operators of certain USTs are required to register those USTs with the state agency responsible for administering the federally mandated UST program. A search of the list of registered USTs in California, prepared by EDR, showed that there are no current registered USTs located on the subject site.

AES interviewed Mr. Scott and various tenant representatives regarding the presence of USTs and ASTs on the subject site. They stated that there are no registered USTs and no hazardous materials registered ASTs located on the subject site. There are no records of USTs and no records of ASTs on the subject site with the exception of propane storage tanks, Refrigerant 404, oxygen cylinders and nitrogen cylinders. In 1996 a permit was taken out to remove one-15,000-gallon diesel UST and one-1,000-gallon unleaded gasoline UST from 9350 Hall Road, tenant Western Pacific Paper & Pulp. A copy of the No Further Action closure letter and the permit are appended.

AES interviewed Mr. Scott regarding the past use of heating fuels on the subject site to ascertain whether USTs or ASTs may have been utilized on site for the storage of heating fuels or oils. Mr. Scott stated that to his knowledge the improvements have always been heated by electricity or natural gas. AES's observations confirmed the nature of the current heating systems at the subject site.

AES visually observed the subject site for surficial evidence of USTs and ASTs. AES did not observe evidence of USTs or ASTs at the subject site expect as noted above.

Polychlorinated Biphenyls (PCBs)

Federal regulations put into effect following the Toxic Substances Control Act (TSCA) require that electrical transformers be labeled to identify their PCB content. Manufacture and distribution of PCBs was banned in 1979. Transformer owners are responsible for compliance with all applicable regulations governing those transformers, including maintenance of the transformer and any remediation work resulting from a transformer-related incident.

Pad-mounted, utility company owned electrical transformers are provided on site. The observed electrical transformers appeared to be in good condition with no visible leaks. Areas around the electrical transformers exhibited no signs of visible staining or abnormal appearance. AES did not observe any labels on the electrical transformers identifying the PCB content.

Based on utility ownership and no observed leaks, AES recommends no further action with regard to PCBs in transformers.

Exterior Surface Condition

AES observed the exterior surface of the subject site. It is estimated that 98% of the subject site surface was covered by improvements and pavement. AES's observation of the site soil surfaces was therefore limited to the landscaped areas.

None of the historical documentation reviewed, indicated that the subject site was previously utilized as a quarry and/or solid waste disposal facility.

No pits, ponds or lagoons were observed at the subject site during the site visit. No areas of distressed or dead vegetation, surface depressions or surface stains attributed to chronic leaks or spills were observed during the site visit.

Interior Surface Condition

AES observed portions of the interior surfaces of the buildings for evidence of unusual conditions. We found no evidence of unusual conditions in the areas we observed.

Vapor Encroachment Condition (VEC)

A Vapor Encroachment Screening was performed for the subject site following the guidelines of ASTM E2600-10. An initial search of all standard government record databases and EDR's proprietary historical records related to former dry cleaners, gas stations and manufactured gas plants within the 1/3-mile radius (default Area of Concern-AOC) was completed. Based on local ground water flow direction knowledge, AES reduced the AOC by the Buonicore Method. Individual offsite facilities within the remaining AOC were evaluated.

Based on this analysis of off-site facilities, AES concludes that a VEC can be ruled out because a VEC does not exist.

VI DATABASE RECORDS REVIEW

Environmental Records Review

An environmental records database search report dated December 1, 2016, was provided by Environmental Data Resources (EDR). A copy of EDR's report is appended. The following discussion excerpts specific items from the report that deserve additional description.

In addition to the mapped sites in the EDR report, there may also be a list of unmapped sites. These are reported database sites that, due to incomplete addressing information, could not be accurately plotted by EDR. In an attempt to locate all unmappable sites, AES compared each address provided on the unmappable site list to known addresses of the site and vicinity, and attempted to locate unmappable sites during reconnaissance of the vicinity. AES concludes that no unmappable sites were identified that meet the search radius criteria of the scope of work and are considered to be environmentally significant to the subject site.

Superfund Enterprise Management System (SEMS) – Former Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)

SEMS tracks hazardous waste sites, potentially hazardous waste sites and remedial activities performed in support of the EPA's Superfund Program. The list was formerly known as CERCLIS and was renamed SEMS by the EPA in 2015. This is a list of contaminated sites under the federal Superfund Program in accord with the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). The U.S. EPA discovers these sites from citizen reports, routine inspection of hazardous waste generators, treatment, storage and disposal facilities, and reporting requirements.

CERCLA Sites					
Facility ID No.	Facility Name and Address	Location			Regulatory History and Current Status
		Distance	Direction	Gradient	
0904850	Red Phosphorus Site 11810 Lakewood Blvd.	1/4	W	Cross	Removal site only, cleaned up.

Review of the CERCLIS list provided by EDR identifies a total of one CERCLIS site listed within the ASTM standard minimum search distance of one-half-mile from the subject site. There are no CERCLIS facilities on the subject site.

The above referenced CERCLIS facility was evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Superfund Enterprise Management System Archive (SEMS-ARCHIVE) – Former CERC-NFRAP List

SEMS-Archive tracks facilities that have no further interest under the Federal Superfund Program. The list was formerly known as CERCLIS-NFRAP but was renamed by the EPA in 2015. Archived facilities have been removed and archived from the inventory of SEMS facilities.
Review of the CERC-NFRAP list provided by EDR identified no CERC-NFRAP sites listed within the ASTM standard minimum search distance of one-half-mile from the subject site. There are no CERC-NFRAP facilities on the subject site.

National Priorities List

The U.S. EPA maintains this list as a subset of CERCLIS, identifying over 1,200 CERCLA sites for priority cleanup under the Superfund Program. Once sites have been designated on the CERCLIS list, the U.S. EPA uses its Hazard Ranking System to determine the potential risks of those sites to human health and the environment. Only the sites that present the greatest risk are added to the NPL, which qualifies the sites to receive CERCLA remedial funding.

Review of the NPL list provided by EDR identifies no NPL sites within the approximate minimum search distance of one-mile from the subject site.

RCRA – Generators

The U.S. EPA's RCRA (Resource Conservation and Recovery Act, 42 U.S.C. '6991 *et seq.*) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. Generators are also listed in the FINDS database.

Review of the RCRA LQ-Generator list provided by EDR identifies a total of one RCRA-LQG site listed. There is one RCRA-LQG facility listed one-quarter-mile to the north northwest and none on the subject property. The Walgreens property is also listed as a RCRA-CESQG (Conditionally Exempt Small Quantity Generator).

The above referenced RCRA LQ-Generator and RCRA-CESQG facility was evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Review of the RCRA SQ-Generator list provided by EDR identifies a total of 20 RCRA-SQG sites listed. There is no RCRA-SQG tenant facility shown on the subject site and there are three RCRA-SQG facilities on adjoining properties.

The above referenced RCRA SQ-Generator facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

RCRA - Treatment, Storage, Disposal (TSD) and CORRACTS Facilities

The Resource Conservation and Recovery Act Information System (RCRIS) is a compilation of selective information on facilities that generate, store, transport, treat or dispose of hazardous waste. Inclusion of a facility on the RCRIS database is not necessarily an indication of an environmental problem.

Review of the RCRIS-TSD list provided by EDR identifies no RCRIS-TSD facility within the approximate minimum search distance of one-half-mile from the subject site.

The CORRACTS database is a list of facilities with RCRA Corrective Action Activity. Review of this database identifies no CORRACTS facility within the approximate minimum search distance of one-mile from the subject site.

Emergency Response Notification System (ERNS)

The ERNS is a compilation of reported releases of hazardous substances into the environment. The database contains information from Spill reports made to federal authorities, including the U.S. EPA, the U.S. Coast Guard, the National Response Center, and the U.S. Department of Transportation.

Review of the ERNS list provided by EDR identifies no ERNS sites listed within the approximate minimum search distance of one-eight-mile from the subject site. There are no ERNS facilities on the subject site.

Facility Index System/Facility Registry System (FINDS)

This database contains both facility information and pointers to other sources that contain more detail. The FINDS database include 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), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes) and PADS (PCB Activity Data System).

Review of the list provided by EDR identifies one listing for a former tenant at the subject site. Intersection Development Corporation (Display Technologies, Inc.) went out of business in the late 1990's. Intersection Development Corp. was described as a handler; a non-generator that did not generate hazardous waste.

US Brownfields

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 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.

Review of the list provided by EDR indicates there are no facilities within the approximate minimum search distance of one-half-mile from the subject site.

Aboveground Storage Tanks (ASTs)

Certain ASTs are regulated under the RCRA Act, and must be registered with the state agency responsible for administering the AST program. Inclusion of a facility on the AST database is not necessarily an indication of an environmental problem.

Review of the current list provided by EDR identifies a total of five sites within a search radius of one-quarter-mile. There are no AST facilities reported on the subject site and there are ASTs reported on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Underground Storage Tanks (USTs)

Certain USTs are regulated under the RCRA Act, and must be registered with the state agency responsible for administering the UST program. USTs are also listed in the CA FID database. Inclusion of a facility on the UST database is not necessarily an indication of an environmental problem. Los Angeles County – HMS also lists underground storage tanks.

Review of the current list provided by EDR identifies a total of six sites within a search radius of one-quarter-mile. There are no facilities on the subject site and there is one facility on an adjoining property to the west and one facility on an adjoining property to the south. Leaking tanks are discussed in the following section.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Leaking Underground Storage Tanks (LUSTs)

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. LUSTs are also listed in the CORTESE database.

Review of the list provided by EDR identifies a total of 21 facilities within the ASTM standard minimum search distance of one-half-mile from the subject site. There is one listing on the subject site and one on the adjoining property to the south.

Of the 21 sites, 15 are down gradient or cross gradient. The remaining six sites are closed cases, including the former LUST listing on the subject site.

The on site listing at Western Pulp and Paper, 9350 Hall Road, was a soil only gasoline case discovered during the removal of a 1,000-gallon premium unleaded gasoline tank and a 15,000-gallon diesel storage tank in 1994. The case was closed August 20, 1996 and a closure letter from the California Regional Water Quality Control Board is appended.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Solid Waste Facilities/Landfills (SWF/LS)

Solid waste records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

Review of the list provided by EDR identifies a total of three sites within the ASTM standard minimum search distance of one-half-mile from the subject site. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

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.

Review of the list provided by EDR identifies a total of fifteen sites within the ASTM standard minimum search distance of one-mile from the subject site. There are no facilities on the subject site and there are no current facilities on adjoining properties. However, there was a previous tenant, prior to 2000, at the adjoining property to the west.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

DEED (Institutional Controls)

Site Mitigation and Brownfield's Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfield's 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.

Review of the list provided by EDR identifies no sites within the approximate minimum search distance of one-half-mile from the subject site.

California Hazardous Material Incident Reporting System (CHMIRS)

The California Office of Emergency Services database contains reported information on incidents involving accidental releases or spills of hazardous materials.

Review of the list provided by EDR identifies no facilities on the subject site.

Hazardous Waste and Substances Sites List (CORTESE)

The Cal-EPA publishes a listing of potential and confirmed hazardous waste sites throughout the State of California. Under California Government Code Section 65962.5, these sites are submitted to the Cal-EPA by the State Department of Health Services, State Water Resources Control Board, the Integrated Waste Management Board and the Department of Toxic Substances Control.

The database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release, and all solid waste disposal facilities from which there is a known migration.

Review of the list provided by EDR identifies no sites within the ASTM standard minimum search distance of one-half-mile from the subject site.

VCP (Voluntary Cleanup Program)

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Review of the list provided by EDR identifies no VCP sites within the ASTM standard minimum search distance of one-half-mile from the subject site.

Hazardous Waste Information System (HAZNET)

The California Department of Health Services, Toxic Substances Control Division, has developed and maintained lists of hazardous waste generators and hazardous waste treatment, storage and disposal facilities in the State of California, in accordance with the Hazardous Waste Control Law (California Health and Safety Code Section 25100 *et seq.*) And the Hazardous Waste Management Act of 1976 (California Health and Safety Code Section 25179.1 *et seq.*). Inclusion of a facility in the HAZNET list is not necessarily an indication of an environmental problem.

Additionally, the California Health and Safety Code requires all counties to prepare and submit hazardous waste management plans. To assist the counties, the Toxic Substances Control Division maintains lists containing hazardous waste generation and disposal data within each county. The Toxic Substances Control Division has assembled this information from manifest reports required from hazardous waste generators. This database currently lists over 20,000 facilities in the State of California.

Review of the list provided by EDR identifies a total of three occurrences at the subject site. The 9300 Building and 9400 Building at the subject site appear on the list as having disposed of small amounts of hazardous wastes in the past.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Historic USTs

The Hazardous Substance Storage Container Database is a historical listing of former UST sites that are closed and typically not listed with the current UST sites.

Review of the list provided by EDR identifies a total of ten sites within the ASTM standard minimum search distance of one-half-mile from the subject site.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Dry Cleaners

This database provides a list of drycleaner facilities that have EPA ID numbers. These facilities have certain SIC codes including: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; dry cleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers and laundry and garment services.

Review of the list provided by EDR identifies a total of two sites within the ASTM standard minimum search distance of one-half-mile from the subject site. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Waste Management Unit Database System (WMUDS/SWAT)

The California Integrated Waste Management Board maintains an inventory list of both open as well as closed and inactive solid waste disposal facilities and transfer stations in accordance with the Solid Waste Management and Resource Recovery Act of 1972, California Government Code Section 2.66790(b). Generally, the California Integrated Waste Management Board learns of locations of disposal facilities through permit applications and from local enforcement agencies. The Waste Management Unit Database System is used by the California Water Resources Control Board and the Regional Water Quality Control Boards for program tracking and inventory of waste management units.

Review of the latest WMUDS/SWAT listing identifies two WMUDS/SWAT facilities within the approximate minimum search distance of one-half-mile from the subject site.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Manufactured Gas Plants (MGP)

Manufactured Gas Plants produced combustible gas for urban use prior to the widespread use and pipeline distribution of natural gas in the 1950s. The main fuels used in production of this gas were coke, coal and oil; the by-products of this manufacturing process include a variety of tars, sludge and other chemicals. MGP sites tend to have subsurface contamination due to the common practice of disposing of the waste products on site.

Review of the MGP list provided by EDR identifies no MGP sites within the approximate minimum search distance of one-mile from the subject site.

US Brownfields

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 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.

Review of the list provided by EDR identifies no sites within the approximate minimum search distance of one-half mile from the subject site.

CERCLA Lien Searches

A Federal CERCLA ("Superfund") lien can only 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. CRECLIS provides information as to the identity of these sites and properties.

Review of the list provided by EDR identifies no listings at the subject site.

In, addition, there are no Federal, State or non-priority liens on the subject property listed in the EDR Database Report or Activity and Use Limitations (AULs) associated with the subject site.

VII ASTM NON-SCOPE ITEMS

Asbestos

In 1977, the U.S. EPA acted to eliminate friable asbestos from building materials. Friable materials are defined as those that can be crushed or reduced to powder by hand pressure. Materials do not have to be damaged to be identified as friable. Additionally, the United States Occupational Safety and Health Administration (OSHA) now requires certain untested materials to be presumed to contain asbestos for buildings constructed prior to 1981.

During the site visit, AES observed reasonably accessible interior areas of the buildings for the existence and condition of suspect ACM. No building construction documents were provided for review. Asbestos can be identified only by specialized equipment and not by the unaided human eye. The site visit was not intended to be a comprehensive search for all ACM at the subject site.

Based on the construction dates of 1951 and 1960, and our observations, the present buildings are suspect for materials containing asbestos. The suspect materials include: spray acoustical ceiling materials, vinyl floor tiles, floor or roof mastic, drywall, insulation and transite materials. No sampling or analytical testing of ASTM Non-Scope items was completed. There is an existing Asbestos Operations & Maintenance (O&M) Plan in place and AES recommends continue use of the plan. A copy if the O&M Plan is appended to this report.

Lead Based Paint

In 1978, the Consumer Product Safety Commission banned the use of lead as an additive in paint. During the site visit, accessible areas were observed for evidence of damaged and/or peeling paint. In general, the painted surfaces appeared to be in good condition. Based on the construction dates of 1951 and 1960, and our on-site observations, the present buildings are suspect for containing lead based paint. As the improvements are used for non-residential purposes, the presence of lead based paint is considered to be a de minimis environmental condition.

Potable Water Supply

The subject site is serviced by a municipally operated, public water system, which is regulated by the Safe Drinking Water Act of 1974. This Act requires that public water supplies be tested for the presence of lead in water. AES contacted the local water utility company, the City of Downey, regarding the results of water tests. The utility company reports that the lead content of the water is below the U.S. EPA action level of 0.015 milligrams per liter.

Radon Gas

Radon gas is a naturally occurring, colorless, odorless gas that is the by-product of the decay of radioactive materials found within bedrock and soil. Radon gas enters buildings through cracks, structural joints, and plumbing openings in floor levels that are in direct contact with the soil. Radon gas, when inhaled, has been found to be carcinogenic in some humans. The U.S. EPA recommended action level for radon gas is 4.0 pCi/L (picoCuries per liter).

The State of California, in conjunction with the U.S. EPA, has conducted residential screening tests in Los Angeles County. The results of that screening indicate that Los Angeles County is predicted to have an average indoor radon screening level of 0.711 pCi/L, with 98% of tests less than 4.0 pCi/L.

AES reviewed the U.S. EPA's Map of Radon Zones for California, which identifies Los Angeles County as being within Radon Zone 2. Counties within Radon Zone 2 have a predicted average indoor radon gas screening level of between 2 and 4 pCi/L.

Based on the literature reviewed, it is our opinion that the risk of radon gas accumulation is not a significant environmental concern at the subject site.

No sampling or analytical testing of ASTM Non-Scope items was completed.

Wetlands

AES did not observe ponded water, flowing water, saturated soils or hydrophytic vegetation at the subject site.

Mold

AES observed portions of the exposed exterior and interior material surfaces of the improvements for signs of mold and/or mildew and none was observed. Based on the condition of these surfaces, the general quality of the exterior details to keep moisture out of the buildings and the general interior air quality observed in the improvements without the assistance of specialized testing equipment, mold and/or mildew were not an environmental concern to the subject property at the time of our site visit.

Please note that AES did not perform any probes behind surface materials, use moisture meters to test materials or use specialized equipment to test air quality for signs of existing mold and/or mildew. If further confirmation is required for determining if mold and/or mildew is present in the subject improvements AES recommends that a qualified Industrial Hygienist be retained to perform the necessary industry standard tests and provide a report of their findings.

VIII CONCLUSIONS

Findings and Opinion

AES completed a Phase I ESA for the site in substantial conformance with the scope and limitations of the Standard. Any exceptions to, or deletions from, the Standard are described in the Assessment.

Historical Recognized Environmental Conditions (HRECs)

Based on site observations, interviews and review of available documents and the database records search, AES concludes that several HRECs were identified at the subject site. The HRECs include the historic UST at the site, the 1994 LUST incident (now closed) and historic site use (manufacturing facility). AES recommends no additional investigation at this time.

Current Recognized Environmental Conditions (RECs)

Based on site observations, interviews and review of available documents and the database records search, AES concludes that one REC was identified at the subject site. Based on the building age, asbestos is suspected at the site. These materials can be managed in place using the existing asbestos operation and maintenance plan. AES recommends no additional investigation at this time.

Controlled Recognized Environmental Conditions (CREC)

Based on site observations, interviews and review of available documents and the database records search, AES concludes that no CRECs were identified at the subject site. AES recommends no additional investigation at this time.

de minimis Conditions

Based on site observations, interviews and review of available documents and the database records search, AES concludes that one *de minimis* condition was identified at the subject site. Based on the age of the buildings, lead based paint is suspected at the site. As the buildings are used for non-residential purposes, AES recommends no additional investigation at this time.

Conclusions

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations ASTM Practice E 1527-13 of 9300, 9350 & 9400 Hall Road and 9301, 9333, 9399 Stewart and Gray Road, the *property*. Any exceptions to or deletions from, this practice are described in Section II of this *report.* This assessment has revealed no evidence of *recognized environmental conditions* with the *property* except for the following:

Based on age of the buildings, suspect asbestos containing may be present at the site and AES recommends continued use of the existing Asbestos O&M Plan.

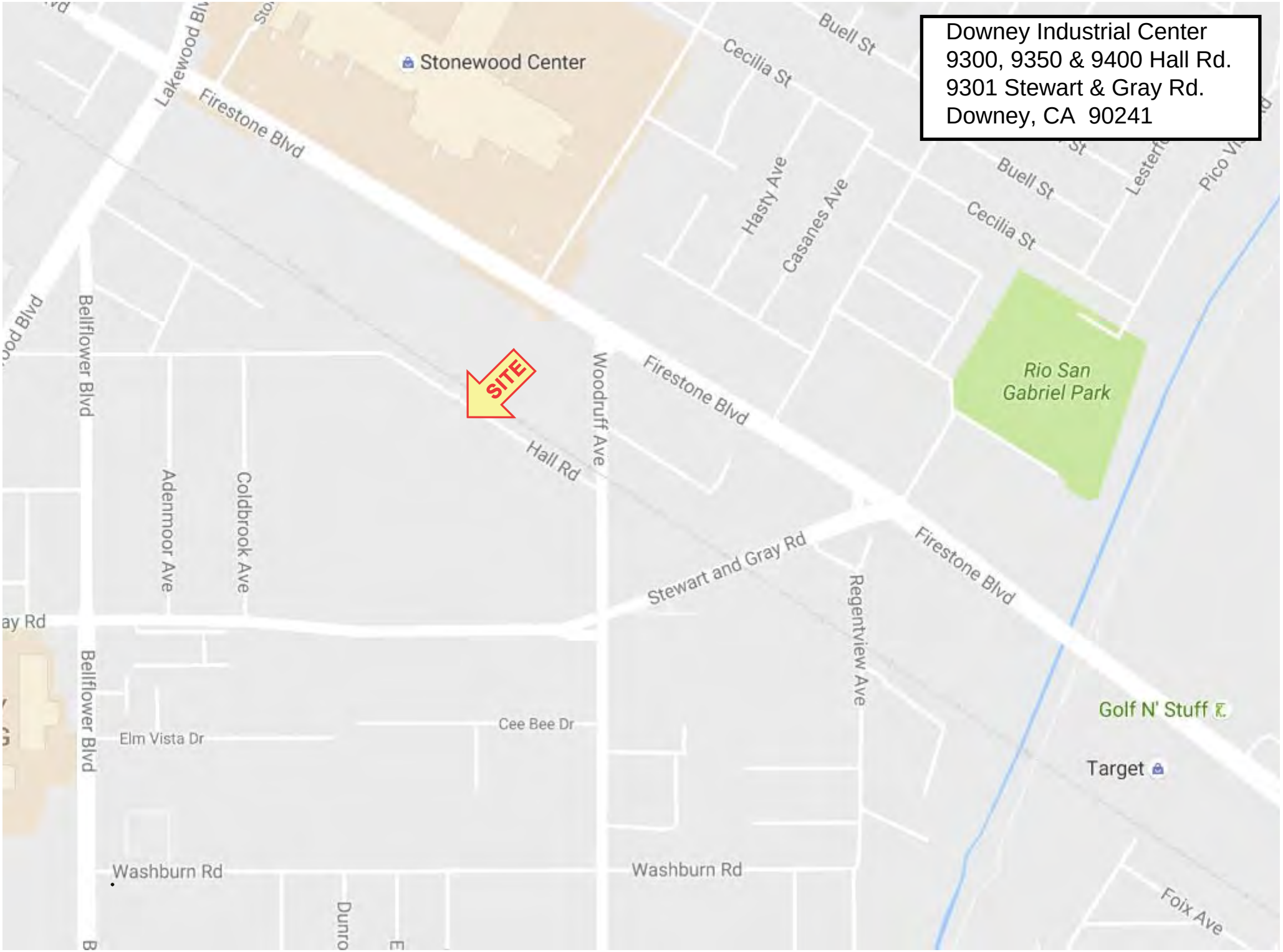
IX INTERVIEWS

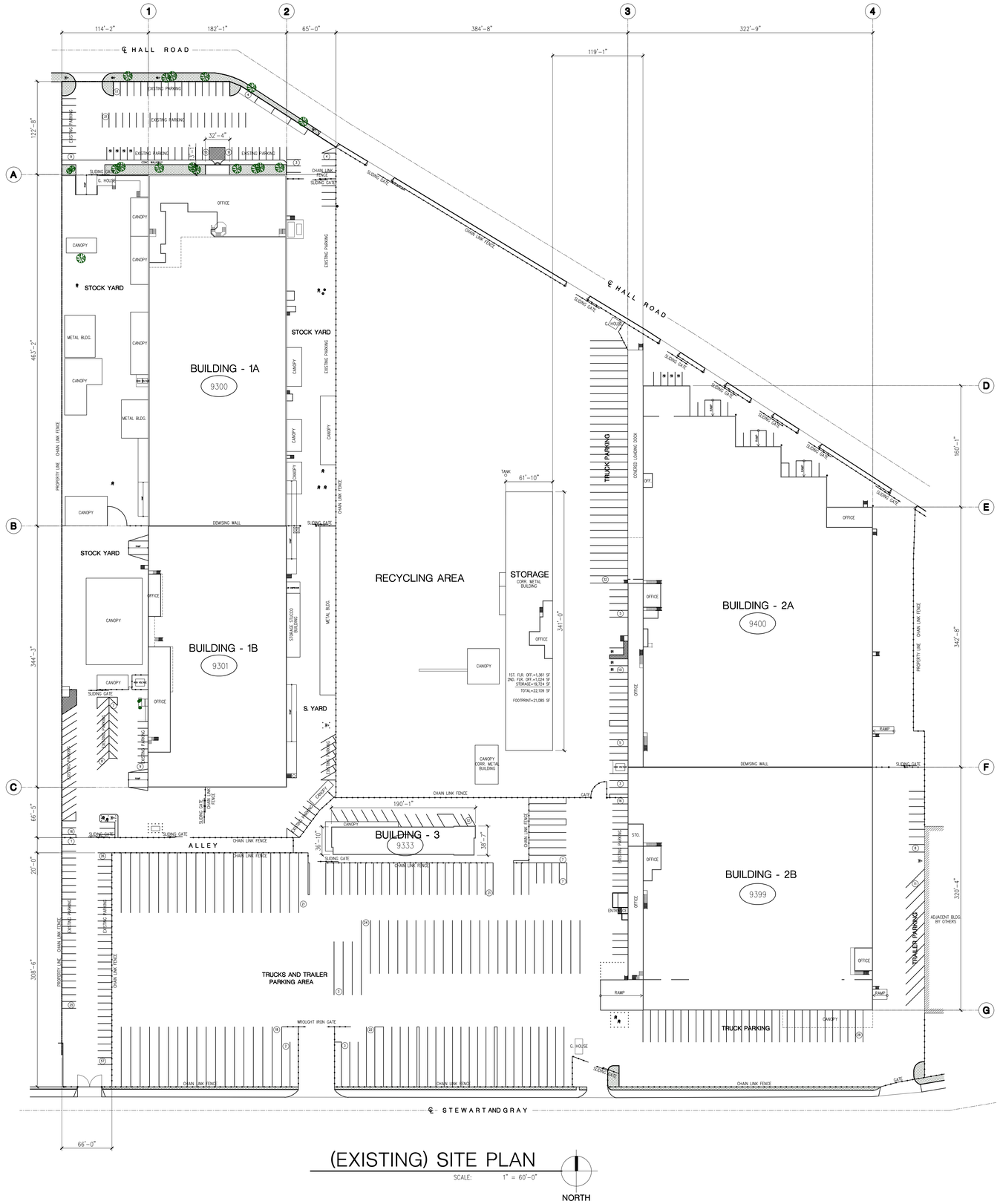
Name	Title/Affiliation	Phone
Mr. Randy Scott	Senior Property Manager Heger Realty Corporation	(323) 727-1144

X QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

William Peden - Mr. Peden has over twenty years of experience related to building design, operations and engineering. He has completed environmental and hazardous materials reviews and inspections throughout the United States. He is a Registered Professional Engineer in Illinois and holds a B.S. in Mechanical Engineering from Bradley University.

Timothy K. Dahlstrand - Mr. Dahlstrand has over twenty-five years of experience related to environmental and engineering matters. He has completed and supervised hundreds of Phase I Environmental Site Assessments throughout the United States and internationally. He is a Registered Professional Engineer and Professional Geologist and holds a B.A. in Geology and an M.S. in Civil Engineering from Northwestern University.


Downey Industrial Center
9300, 9350 & 9400 Hall Rd.
9301 Stewart & Gray Rd.
Downey, CA 90241
SITE
Stonewood Center
Lakewood Blvd
Firestone Blvd
Cecilia St
Buell St
Hasty Ave
Casanes Ave
Rio San Gabriel Park
Bellflower Blvd
Woodruff Ave
Hall Rd
Adenmoor Ave
Coldbrook Ave
Stewart and Gray Rd
Regentview Ave
Golf N' Stuff
Target
Cee Bee Dr
Elm Vista Dr
Washburn Rd
Foix Ave



(EXISTING) SITE PLAN

SCALE: 1" = 60'-0"

NORTH

SUMMARY:

BUILDING - 1A

ADDRESS: 9300 HALL ROAD

TWO-STORY

FIRST FLOOR OFFICE	13,400 SF
SECOND FLOOR OFFICE	15,901 SF
WAREHOUSE	71,308 SF
TOTAL AREA	100,699 SF

FOOTPRINT = 84,798 SF

BUILDING - 1B

ADDRESS: 9301 STEWART AND GRAY STREET

TWO-STORY

FIRST FLOOR OFFICE	5,022 SF
SECOND FLOOR OFFICE	5,309 SF
WAREHOUSE	57,847 SF
TOTAL AREA	68,178 SF

FOOTPRINT = 62,869 SF

BUILDING - 2A

ADDRESS: - 9400 HALL ROAD

TWO-STORY

FIRST FLOOR OFFICE	4,824 SF
SECOND FLOOR OFFICE	4,824 SF
WAREHOUSE	128,092 SF
TOTAL AREA	137,740 SF

FOOTPRINT = 132,974 SF

BUILDING - 2B

ADDRESS: - 9399 STEWART AND GRAY STREET

TWO-STORY

FIRST FLOOR OFFICE	3,500 SF
SECOND FLOOR OFFICE	4,175 SF
WAREHOUSE	99,010 SF
TOTAL AREA	106,685 SF

FOOTPRINT = 102,590 SF

BUILDING - 3

ADDRESS: - 9333 STEWART AND GRAY STREET

ONE-STORY

FOOTPRINT = 6,994 SF

JOHN G. CATALDO A.I.A. C.S.I.

ARCHITECTURE . ENGINEERING

835 MISSION STREET, SOUTH PASADENA, CA 91030
OFFICE : 626-799-4400 FAX : 626-799-7010

PROJECT NAME & SITE ADDRESS:

AS BUILT PLAN

9300 HALL ROAD
9301 STEWART AND GRAY STREET
9400 HALL ROAD
9399 STEWART AND GRAY STREET
9333 STEWART AND GRAY STREET

DOWNEY CA. 910241

DEVELOPER :

Drawing Content :

SITE PLAN

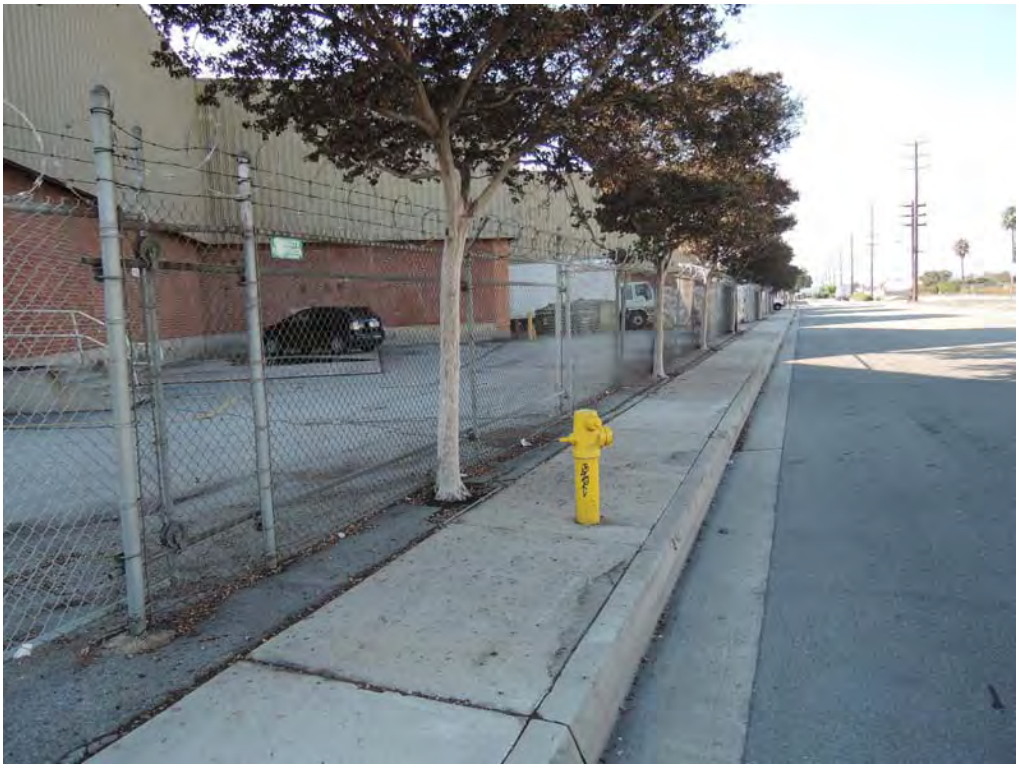
Revisions :	Date :
1 -	-

Designer :	JC
Manager :	BF
Date :	11-20-13
Job No :	2013-131
Scale :	AS SHOWN

Drawing No :

T-1

SHEET : OF :



1) View of the northeast boundary of the subject property looking north-west along Hall Road from the northeast corner.

2) View looking southeast along Hall Road, the north-east side of subject property.

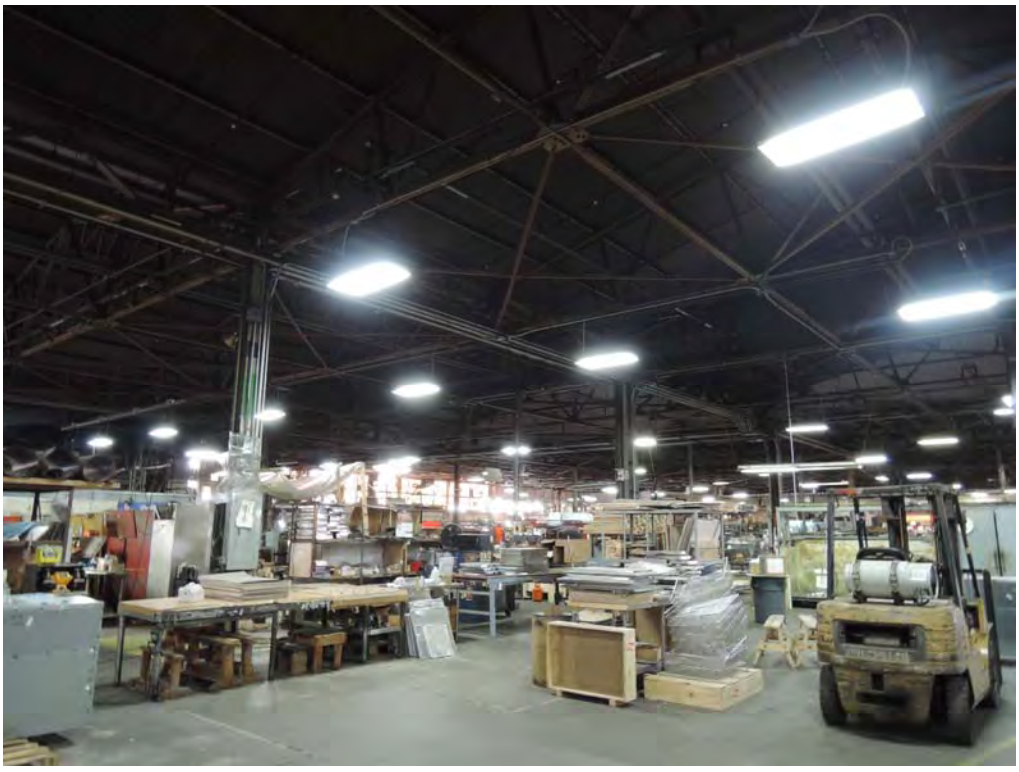
3) View of the north boundary of the subject property looking west.

4) View looking east along the north boundary of the subject property from the northwest corner.

5) View of the east boundary of the subject property looking south from Hall Road.

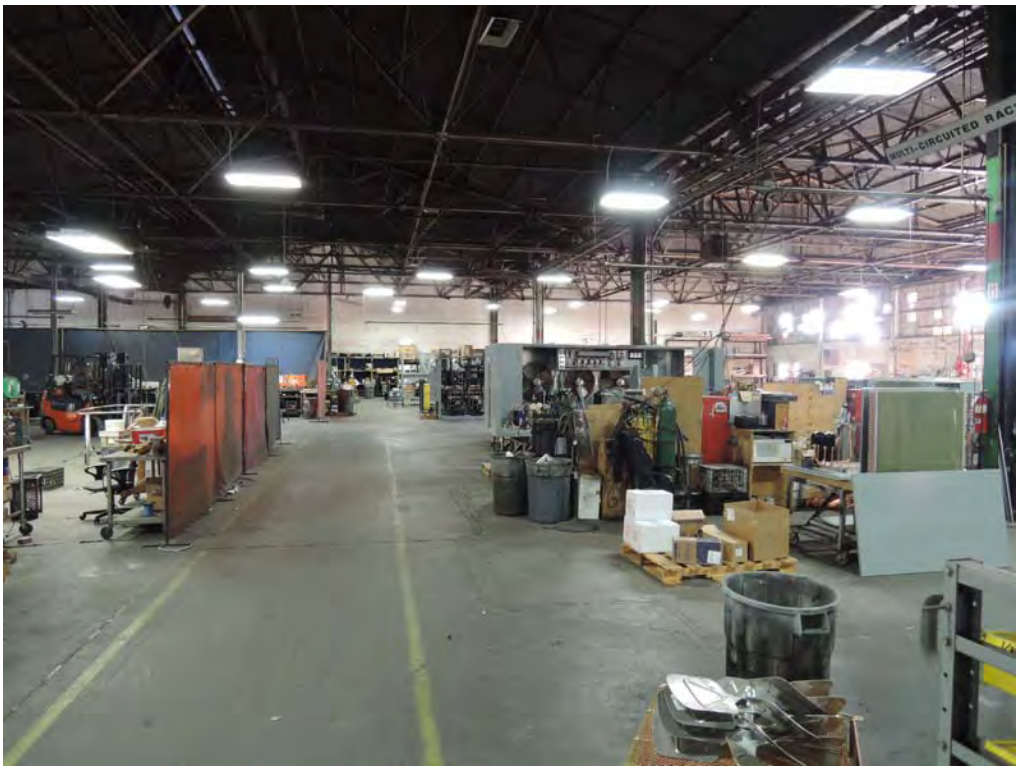
6) View looking south along the west boundary of the subject property from Hall Road.

7) View of 9300 Hall Road, the 1A Building, at the northwest corner of the subject property looking south from Hall Road.



8) View looking northeast in the plant area of 9300 Hall Road, Building 1A.

9) View of the completed product storage area looking southwest in the 9300 Hall Road, 1A Building.



10) View looking south in the production area of Building 1A, 9300 Hall Road.

11) View of the raw material storage racks looking northeast in Building 1A, 9300 Hall Road,

12) View looking west in the office area of Building 1A, 9300 Hall Road.

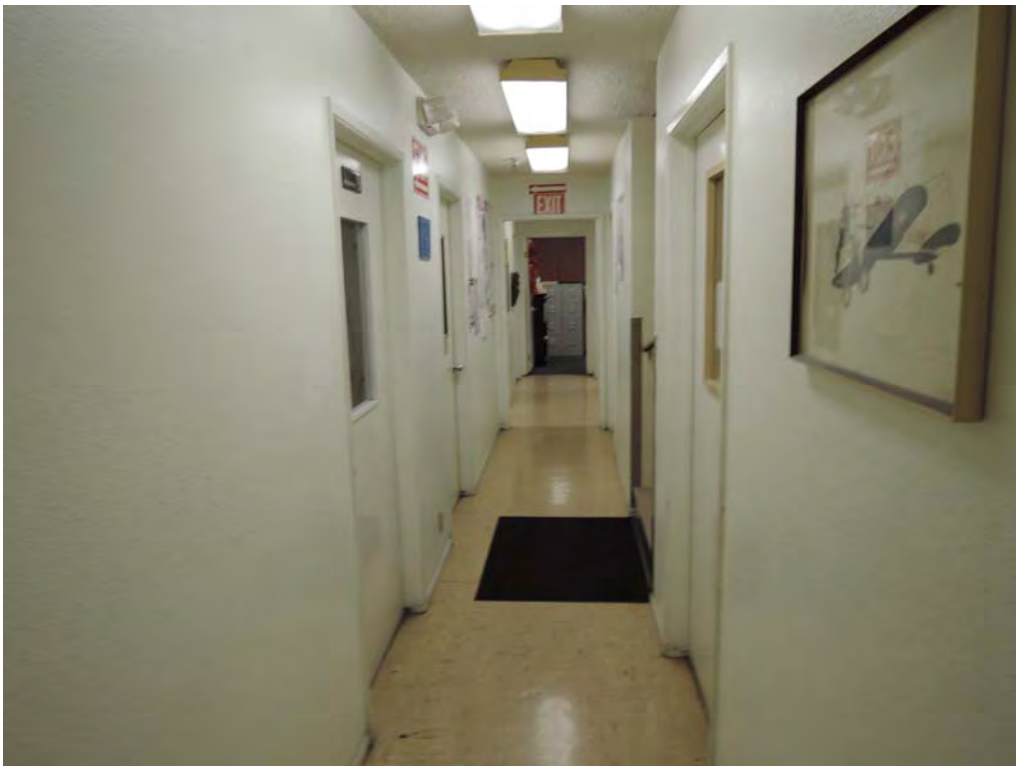
13) View of the production area of Building 1B, 9301 Stewart and Gray Road looking northwest.

14) View looking northwest in a production area of Building 1B, 9301 Stewart and Gray Road.

15) View of the nearly complete products of the Building 1B, 9301 Stewart and Gray Road production. Looking west.

16) View looking northeast at a production area of the Building 1B, 9301 Stewart and Gray Road facility.

17) View of the engineering office in Building 1B, 9301 Stewart and Gray Road looking northeast.



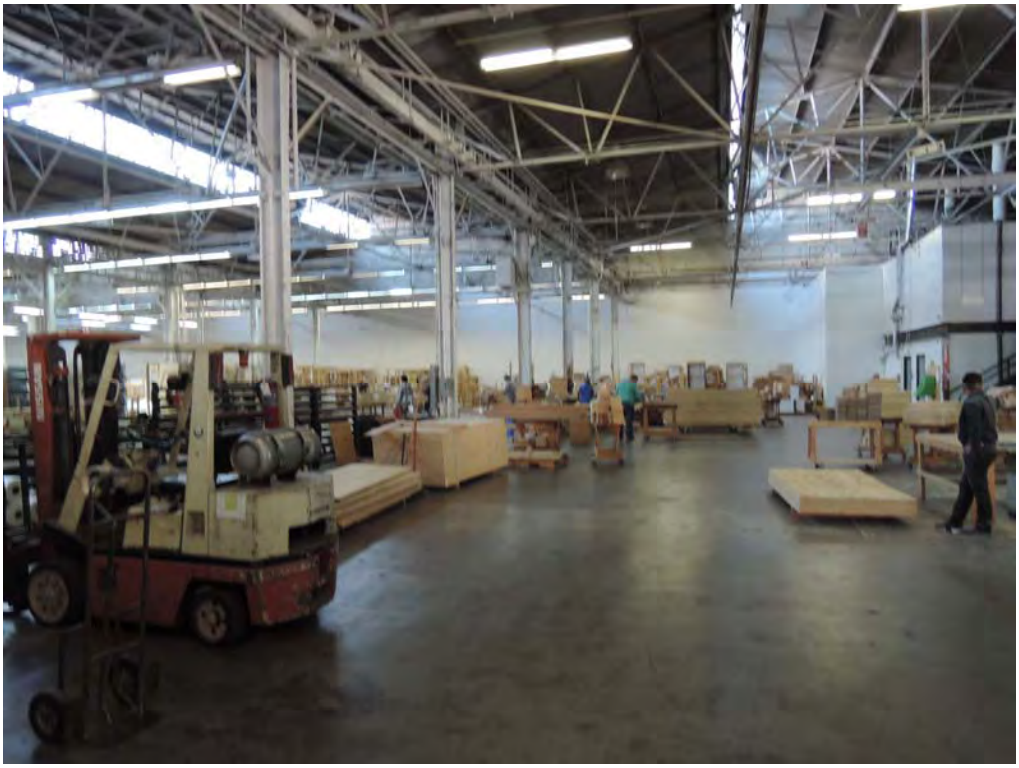
18) View looking north in the office area in Building 1B, 9301 Stewart and Gray Road.

19) View of Building 2A, 9400 Hall Road, at the northeast corner of the subject property looking southwest.

20) View looking east in the office area of Building 2A, 9400 Hall Road.

21) View of raw material storage in Building 2A, 9400 Hall Road, looking south.

22) View looking north-west in raw material storage in Building 2A, 9400 Hall Road.



23) View of a portion of the fabrication area of Building 2S, 9400 Hall Road looking south.

24) View looking north-west in the finished product storage area in Building 2A, 9400 Hall Road.

25) View of the Building 2B, 9399 Stewart and Gray Road beyond the fence looking southeast.

26) View looking north at the office area and material storage areas in Building 2B, 9399 Stewart and Gray Road.

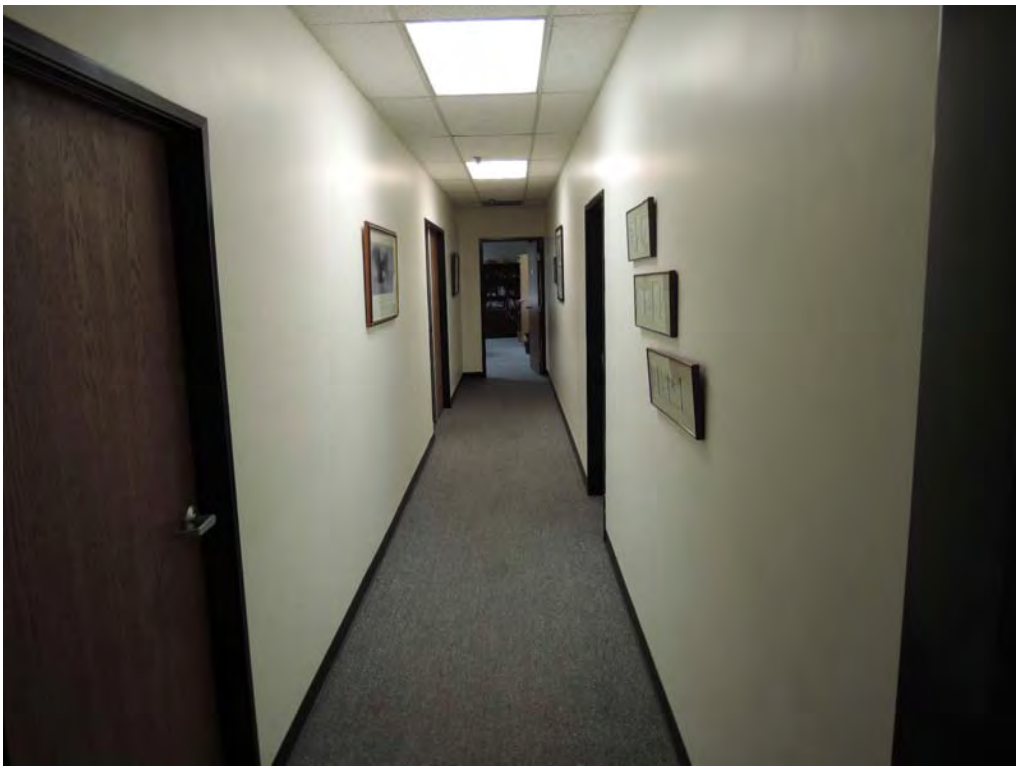
27) View of pallet storage area in Building 2B, 9399 Stewart and Gray Road, looking north.

28) View looking north in warehouse storage area of Building 2B, 9399 Stewart and Gray Road.

29) View of material storage area in Building 2B, 9399 Stewart and Gray Road looking south.

30) View looking west in the Building 2B, 9399 Stewart and Gray Road looking north.

31) View of Building 4, Western Pacific Pulp & Paper, looking southwest.

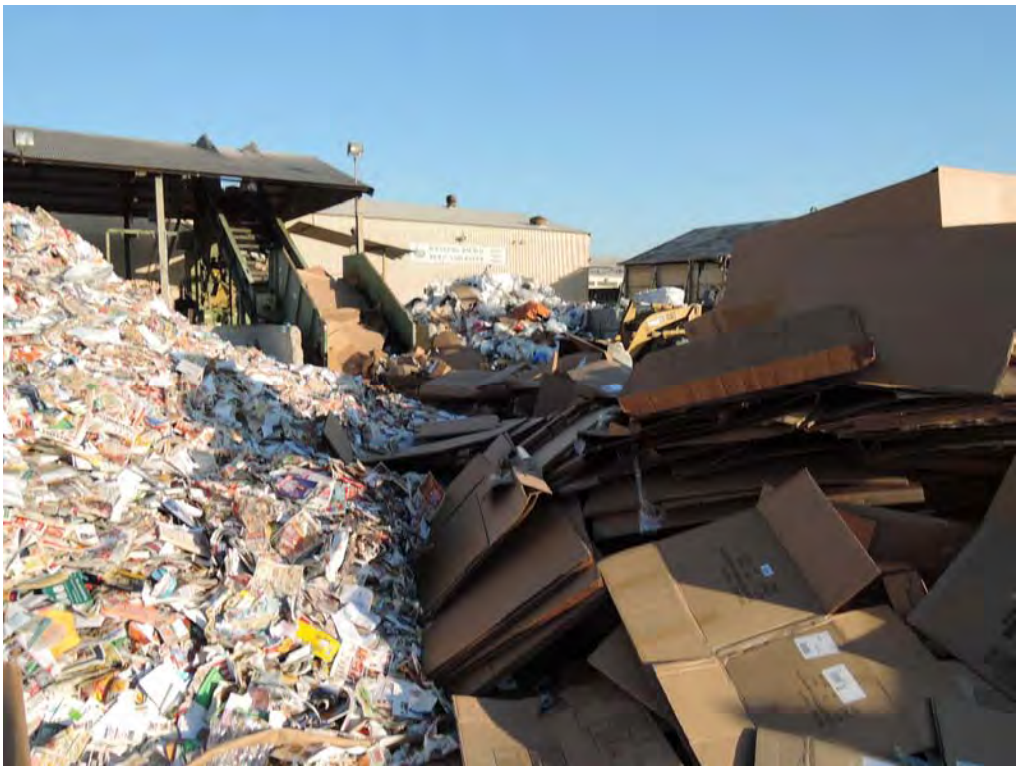


32) View looking north in the office space of Western Pacific Pulp & Paper.

33) View of material stored under roof at Building 4, Western Pacific Pulp & Paper, looking south.

34) View looking southwest in the sorting yard by Building 4, Western Pacific Pulp & Paper.

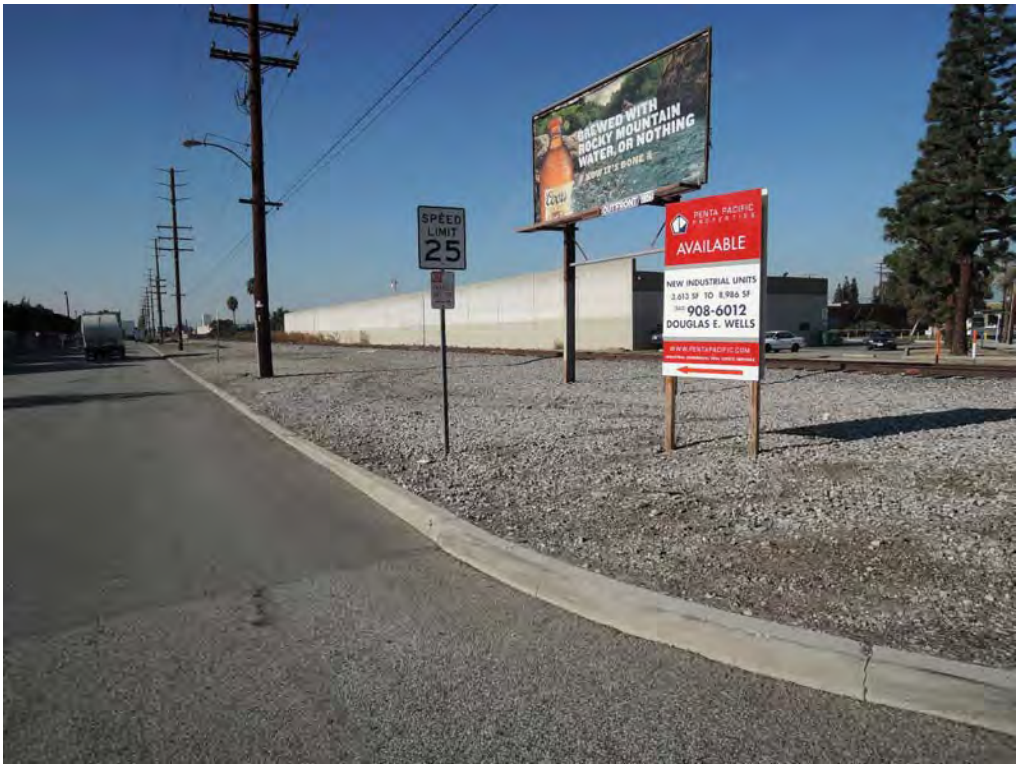
35) View of the outdoor storage area by Building 4, Western Pacific Pulp & Paper, looking northwest.



36) View looking southeast in the outdoor sorting area by Building 4, Western Pacific Pulp & Paper.

37) View of adjacent property, 11899 Woodruff Avenue, along the west boundary of the subject property looking northwest.

38) View looking northwest at the east side adjacent property 11711 Woodruff Avenue.



39) View of the Southern Pacific Railroad property across Hall Road along the northeast side of the property.

40) View looking northeast at the property north at the north side of Hall Road at the northwest corner of the subject property.

41) View of the adjacent property at the west side of the subject property looking south.

42) View looking north at a typical utility transformer on the subject property.

Downey Industrial Center
9300 Hall Rd Et AL
Downey, CA 90241

Inquiry Number: 4793830.2s
December 01, 2016

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	239
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

9300 HALL RD ET AL
DOWNEY, CA 90241

COORDINATES

Latitude (North):	33.9293160 - 33° 55' 45.53''
Longitude (West):	118.1193580 - 118° 7' 9.68''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	396539.3
UTM Y (Meters):	3754688.8
Elevation:	110 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5633777 WHITTIER, CA
Version Date:	2012
West Map:	5633765 SOUTH GATE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
9300 HALL RD ET AL
DOWNEY, CA 90241

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	AEROJET ORDNANCE CO	9300 HALL RD	LOS ANGELES CO. HMS		TP
A2	INTERSECTION DEVELOP	9300 E HALL RD	RCRA NonGen / NLR, FINDS, HAZNET, ECHO		TP
A3	OMNI TEAM INC	9300 HALL RD	HAZNET		TP
A4	AEROJET ORDNANCE CO	9300 E HALL RD	SWEEPS UST		TP
A5	OMNI TEAM INC	9300 HALL RD	HAZNET		TP
A6	ROSECRANS AVE. / WOO	LINDALE AVE/CORNUTA	SWF/LF	Lower	1 ft.
B7	WESTERN PACIFIC PULP	9350 HALL RD	LUST, SWEEPS UST, HAZNET, HIST CORTESE	Higher	9, 0.002, NE
8	GOULD-BROWN BOVERI	11711 WOODRUFF AVE	RCRA-SQG, FINDS, ECHO	Lower	61, 0.012, East
C9	INDUSTRIAL BUILDING	11908 12 WOODRUFF AV	RCRA-SQG, FINDS, ECHO	Lower	63, 0.012, SE
D10	HOLM INDUSTRIES	9368 STEWART AND GRA	LUST	Lower	80, 0.015, South
D11	COAST POLYMERS INC	9368 STEWART AND GRA	UST	Lower	80, 0.015, South
E12	PRIMEX TECHNOLOGIES	9236 HALL RD	SLIC, UST	Higher	140, 0.027, WNW
E13	GENERAL DYNAMICS OTS	9236 E HALL RD	RCRA-SQG, FINDS, WDS	Higher	140, 0.027, WNW
E14	OLIN ORDINANCE	9236 HALL RD	ENVIROSTOR, SLIC, LOS ANGELES CO. HMS	Higher	140, 0.027, WNW
E15	GENERAL DYNAMICS OTS	9236 E HALL RD	SWEEPS UST, HIST UST, CA FID UST, EMI, LA Co. Site...	Higher	140, 0.027, WNW
C16	NORTHERN TRUST BANK	11911 WOODRUFF AVE	RCRA-SQG, FINDS	Lower	146, 0.028, SE
F17		11860 WOODRUFF AVE	EDR Hist Auto	Lower	200, 0.038, ESE
B18	FINE MACHINE INC	11255 WOODRUFF AVE	RCRA-SQG, FINDS, HAZNET, ECHO	Higher	204, 0.039, NE
F19		11840 WOODRUFF AVE	EDR Hist Auto	Lower	230, 0.044, ESE
F20	REED GRAIN & MILLING	11814 WOODRUFF AVE	DRYCLEANERS, HAZNET	Lower	230, 0.044, ESE
21	GOLDEN W PIPE & SUPP	11700 WOODRUFF AVE	SWEEPS UST	Lower	363, 0.069, East
G22	WATER YARD	9252 STEWART AND GRA	HIST UST	Lower	388, 0.073, SW
G23	CITY OF DOWNEY	9252 STEWART RD	SWEEPS UST, CA FID UST	Lower	388, 0.073, SW
H24		11939 WOODRUFF AVE	EDR Hist Auto	Lower	391, 0.074, SE
H25	METALSOURCE	11939 WOODRUFF AVE	SWEEPS UST, LOS ANGELES CO. HMS	Lower	391, 0.074, SE
H26	INCO EXPRESS INC	11941 WOODRUFF AVE	UST, SWEEPS UST	Lower	403, 0.076, SE
H27	INCO EXPRESS INC	11941 SOUTH WOODRUFF	LUST, HIST UST	Lower	403, 0.076, SE
28	FIRESTONE CHRYSLER P	9262 E FIRESTONE BLV	RCRA-SQG, SWEEPS UST, HIST UST, FINDS, LOS ANGELES	Higher	421, 0.080, NNE
I29	MCGEAN CHEM CO INC	9520 E CEE BEE DR	RCRA-SQG, FINDS, ECHO	Lower	549, 0.104, ESE
I30	MCGEAN-ROHCO INC	9520 E CEE BEE DRIVE	RCRA-SQG, SWEEPS UST, LOS ANGELES CO. HMS	Lower	549, 0.104, ESE
I31	MCGEAN-ROHCO, INC.	9520 CEEBEE DR E	LUST, HIST CORTESE	Lower	549, 0.104, ESE
32		9128 MARGARET ST	EDR Hist Cleaner	Higher	581, 0.110, NW
33	CITY CLEANERS & TAIL	9400 FIRESTONE BLVD	EDR Hist Cleaner	Higher	624, 0.118, NE
J34		9240 FIRESTONE BLVD	EDR Hist Auto	Higher	628, 0.119, North
K35	LLOYD'S CLEANERS	9312 E FIRESTONE BLV	EDR Hist Cleaner	Higher	635, 0.120, NNE
K36	PLAZA CLEANERS	9304 1/4 E FIRESTONE	RCRA-SQG, FINDS, ECHO	Higher	636, 0.120, NNE
K37	DICK & AL'S SERVICE	9328 E FIRESTONE BLV	EDR Hist Auto	Higher	637, 0.121, NNE
K38	KENNY'S SERVICE	9328 FIRESTONE BLVD	EDR Hist Auto	Higher	637, 0.121, NNE
J39	SAN FERNANDO CREAMER	9220 E FIRESTONE BLV	SWEEPS UST	Higher	676, 0.128, North

MAPPED SITES SUMMARY

Target Property Address:
9300 HALL RD ET AL
DOWNEY, CA 90241

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
L40	CUMMINS PACIFIC, LLC	9520 STEWART AND GRA	AST	Lower	686, 0.130, ESE
L41	SR MAINTENANCE & MAN	9525 STEWART AND GRA	DRYCLEANERS, HAZNET	Lower	731, 0.138, East
M42	RAHNS FURNITURE REFI	9102 FIRESTONE	RCRA-SQG, FINDS, ECHO	Higher	779, 0.148, NNW
J43	GOODYEAR TIRE STORE	9245 E FIRESTONE BLV	RCRA-SQG, FINDS, ECHO	Higher	789, 0.149, North
N44	APTOS ESPLANADE PUMP	12007 WOODRUFF	HIST CORTESE	Lower	802, 0.152, SSE
K45	U R SHELL	9305 FIRESTONE BLVD	UST	Higher	854, 0.162, NNE
K46	SHELL SERVICE STATIO	9305 FIRESTONE BLVD.	LUST	Higher	854, 0.162, NNE
K47	SHELL OIL #204-2250-	9305 FIRESTONE BLVD	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS	Higher	854, 0.162, NNE
K48	SHELL	9305 FIRESTONE BLVD	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Higher	854, 0.162, NNE
K49	SHELL SERVICE STATIO	9305 E FIRESTONE	RCRA-SQG, HIST UST, FINDS, HAZNET, LOS ANGELES CO...	Higher	854, 0.162, NNE
M50		9136 E FIRESTONE BLV	AST	Higher	860, 0.163, NNW
M51	PENSKE TOYOTA	9136 E. FIRESTONE BL	RCRA-SQG, SWEEPS UST, HIST UST, CA FID UST, FINDS,...	Higher	860, 0.163, NNW
M52	PENSKE TOYOTA	9136 E FIRESTONE BLV	AST, HAZNET	Higher	860, 0.163, NNW
N53	KIRKHILL INC	12021 WOODRUFF AVENU	HIST UST, HAZNET	Lower	885, 0.168, SSE
N54	KIRKHILL INC	12021 WOODRUFF AVE	RCRA-SQG, LUST, FINDS, HIST CORTESE, ECHO	Lower	885, 0.168, SSE
O55	DARNELL CORP	12000 WOODRUFF AVE	SWEEPS UST, RCRA NonGen / NLR, FINDS, LOS ANGELES...	Lower	930, 0.176, SE
O56	FUJI PHOTO FILM U S	12010 WOODRUFF AVE S	RCRA NonGen / NLR, FINDS, HAZNET, ECHO	Lower	930, 0.176, SE
57	REGENT MFG CO., INC.	11905 REGENTVIEW	HIST UST, EMI, WDS	Lower	969, 0.184, ESE
P58	CAR WASH USA	9514 FIRESTONE BLVD	SWEEPS UST	Higher	1107, 0.210, East
Q59	CLASSIC GRAPHIX	9459 WASHBURN RD	RCRA-SQG, FINDS, HAZNET, LOS ANGELES CO. HMS, ECHO	Lower	1130, 0.214, South
P60	LOPEZ TRANSMISSION	9524 E FIRESTONE BLV	RCRA-SQG, FINDS, ECHO	Higher	1135, 0.215, East
Q61	RITE ENGINEERING AND	9441 WASHBURN RD	RCRA NonGen / NLR, FINDS, EMI, HAZNET, ECHO	Lower	1193, 0.226, South
R62	DOWNEY	9407 WASHBURN RD	SWEEPS UST, HIST UST	Lower	1193, 0.226, SSW
R63	SOUTHERN CALIFORNIA	9407 WASHBURN RD	UST	Lower	1193, 0.226, SSW
R64	SO CALIF GAS CO/DOWN	9407 WASHBURN RD	RCRA-SQG, FINDS, ECHO	Lower	1193, 0.226, SSW
P65		9534 FIRESTONE BLVD	AST	Higher	1206, 0.228, East
P66	CAR WASH USA- MINI M	9534 FIRESTONE BLVD	UST	Higher	1206, 0.228, East
P67	60 MINUTE TUNE DOWNE	9536B FIRESTONE BLVD	RCRA-SQG	Higher	1230, 0.233, East
P68	60 MINUTE TUNE DOWNE	9536B FIRESTONE BLVD	RCRA-SQG, FINDS, ECHO	Higher	1230, 0.233, East
P69	RAY ENGINEERING	9536 FIRESTONE BL	SWEEPS UST, HIST UST	Higher	1230, 0.233, East
P70	DOWNEY CAR CARE CENT	9536 FIRESTONE BLVD	AST	Higher	1230, 0.233, East
Q71	STUD WELDING PRODUCT	9455 WASHBURN ROAD	RCRA-SQG, FINDS, HAZNET, LOS ANGELES CO. HMS, ECHO	Lower	1230, 0.233, South
S72	WALGREEN NO 10112	9018 FIRESTONE BLVD	RCRA-LQG, FINDS	Higher	1308, 0.248, NNW
S73	WALGREENS #10112	9018 FIRESTONE BLVD	RCRA-CESQG	Higher	1308, 0.248, NNW
74	GENERAL PAVING CO/JO	9316 WASHBURN RD	LUST, HIST CORTESE	Lower	1429, 0.271, SSW
75	VIMAR INC	9650 WASHBURN RD	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Lower	1524, 0.289, SE
T76	CRESCENT TRUCK LINES	11937 REGENTVIEW AVE	LUST, LOS ANGELES CO. HMS	Lower	1526, 0.289, ESE
77	MOHAWK SERVICE STTIO	11534 LAKEWOOD	LUST, HIST UST, HIST CORTESE	Higher	1538, 0.291, WNW
T78	LEXINGTON CHEMICALS	11916 REGENTVIEW AVE	LUST	Lower	1602, 0.303, ESE

MAPPED SITES SUMMARY

Target Property Address:
9300 HALL RD ET AL
DOWNEY, CA 90241

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
T79	LEXINGTON CHEMICALS	11916 REGENTVIEW AVE	LUST, HIST CORTESE	Lower	1602, 0.303, ESE
80	DOWNEY DUMP	11014 PANGHORN	WMUDS/SWAT	Higher	1632, 0.309, ENE
81	US RENTALS INC	9606 FIRESTONE BLVD	LUST, SWEEPS UST, HIST CORTESE, LOS ANGELES CO....	Higher	1636, 0.310, East
82	DOWNEY AREA RECYCLIN	9770 WASHBURN ROAD	SWF/LF, WMUDS/SWAT, CHMIRS, NPDES	Lower	1846, 0.350, SE
83	A C PETERSON COMPANY	12207 WOODRUFF AVE S	LUST, HIST CORTESE	Lower	1847, 0.350, SSE
U84	SHELL	8767 FIRESTONE BLVD	LUST	Higher	1926, 0.365, NNW
U85	SHELL STATION	8767 FIRESTONE	SWEEPS UST, HIST UST, HIST CORTESE	Higher	1926, 0.365, NNW
V86	SITE 24, TANK #2	9821 DOWNEYNORWALK	HIST CORTESE	Lower	1935, 0.366, ESE
V87	CALSAN INC	9821 DOWNEY NORWALK	RCRA-SQG, LUST, UST, SWEEPS UST, HIST UST, FINDS,...	Lower	1935, 0.366, ESE
88	DOWNEY DUMP	9612 ARDINE STREET	SWF/LF	Higher	2101, 0.398, ENE
89	ASTRO PAK FACILITY	12201 PANGBORN	SLIC	Lower	2255, 0.427, SSE
90	SEQUEL CONTRACTORS I	12240 WOODRUFF AVE	LUST, LOS ANGELES CO. HMS	Lower	2351, 0.445, SSE
91	RED PHOSPHOROUS SITE	11810 LAKEWOOD BLVD.	SEMS, PRP	Lower	2359, 0.447, West
W92	COCA-COLA ENTERPRISE	8729 CLETA ST	LUST, CHMIRS, HIST CORTESE	Lower	2366, 0.448, WNW
W93	ASTRO PAK FACILITY F	8708 CLETA ST	LUST	Lower	2442, 0.463, WNW
W94	MARY MANDELLA	8708 CLETA ST	SWEEPS UST, CA FID UST, HIST CORTESE	Lower	2442, 0.463, WNW
W95	ASTRO PAK CORP.	8700 CLETA STREET	SLIC, ENF	Lower	2515, 0.476, WNW
96	ALPASE, INC.	9750 SEAACA	SLIC, WDS	Lower	2617, 0.496, SE
97	THRIFTY #291	10808 LAKEWOOD BLVD	LUST, HAZNET, HIST CORTESE, LOS ANGELES CO. HMS	Higher	2618, 0.496, NNW
X98	VULTEE TRAINING FIEL		ENVIROSTOR	Lower	2640, 0.500, WSW
X99	AIR FORCE PLANT #16		ENVIROSTOR	Lower	2640, 0.500, WSW
X100	AIR FORCE PLANT #16		FUDS	Lower	2658, 0.503, WSW
101	MANUFACTURERS WIRE C	12320 WOODRUFF AVE	RCRA-SQG, ENVIROSTOR, FINDS, HAZNET, WDS, ECHO	Lower	2840, 0.538, SSE
102	DOWNEY FAMILY HOUSIN		ENVIROSTOR	Lower	2860, 0.542, West
103	ARROW TRANSPORTATION	12328 WOODRUFF AVENU	ENVIROSTOR, CHMIRS, HIST CORTESE	Lower	2931, 0.555, SSE
104	PIH HEALTH HOSPITAL	11500 BROOKSHIRE AVE	ENVIROSTOR, CHMIRS, LOS ANGELES CO. HMS	Higher	3245, 0.615, WNW
105	PEACOCK ENGINEERING	10620 EAST FIRESTONE	ENVIROSTOR, SLIC	Higher	3348, 0.634, ESE
106	QM BULK STORAGE FAC		ENVIROSTOR	Lower	3374, 0.639, SSE
107	DOWNEY USD	11040 BROOKSHIRE AVE	RCRA-SQG, ENVIROSTOR, SCH, SWEEPS UST, FINDS,...	Higher	3509, 0.665, NNW
108	VULTEE AIRCRAFT CO		ENVIROSTOR	Lower	3513, 0.665, SW
109	STORM DRAIN	BELLFLOWER&IMPERIAL	Notify 65	Lower	4110, 0.778, SSW
110	NASA INDUSTRIAL PLAN	12214 LAKEWOOD BLVD.	ENVIROSTOR, SLIC, VCP, HIST CORTESE	Lower	4321, 0.818, WSW
111	EAST MIDDLE SCHOOL	10301 WOODRUFF AVENU	ENVIROSTOR, SCH	Higher	4373, 0.828, NNE
112	COSTCO WHOLESALE NO	12324 HOXIE AVE	RCRA-LQG, ENVIROSTOR, US AIRS, HAZNET, NPDES	Lower	5033, 0.953, SE
113	SUSSMAN MIDDLE SCHOO	12500 BIRCHDALE AVEN	ENVIROSTOR, SCH	Lower	5077, 0.962, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
AEROJET ORDNANCE CO 9300 HALL RD DOWNEY, CA 90241	LOS ANGELES CO. HMS Facility ID: 010688-010632	N/A
INTERSECTION DEVELOP 9300 E HALL RD DOWNEY, CA 90241	RCRA NonGen / NLR EPA ID:: CAR000036079 FINDS Registry ID:: 110002920858 HAZNET GEPAID: CAR000036079 ECHO	CAR000036079
OMNI TEAM INC 9300 HALL RD DOWNEY, CA 90241	HAZNET GEPAID: CAC002571513	N/A
AEROJET ORDNANCE CO 9300 E HALL RD DOWNEY, CA	SWEEPS UST Status: A Comp Number: 10632	N/A
OMNI TEAM INC 9300 HALL RD DOWNEY, CA 90241	HAZNET GEPAID: CAC002619449	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN	San Gabriel Valley Areas of Concern
US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER PCB Transformer Registration Database
RADINFO Radiation Information Database
HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS Incident and Accident Data
CONSENT Superfund (CERCLA) Consent Decrees
INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
DOCKET HWC Hazardous Waste Compliance Docket Listing
UXO Unexploded Ordnance Sites
CA BOND EXP. PLAN Bond Expenditure Plan
Cortese "Cortese" Hazardous Waste & Substances Sites List
CUPA Listings CUPA Resources List
EMI Emissions Inventory Data
ENF Enforcement Action Listing
Financial Assurance Financial Assurance Information Listing
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
NPDES NPDES Permits Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
LA Co. Site Mitigation Site Mitigation List
UIC UIC Listing
WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
WIP Well Investigation Program Case List
ICE ICE
FUELS PROGRAM EPA Fuels Program Registered Listing
ABANDONED MINES Abandoned Mines

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants

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 CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RED PHOSPHOROUS SITE	*11810 LAKEWOOD BLVD.*	*W 1/4 - 1/2 (0.447 mi.)*	*91*	*174*

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/21/2016 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WALGREEN NO 10112	*9018 FIRESTONE BLVD*	*NNW 1/8 - 1/4 (0.248 mi.)*	*S72*	*125*

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 06/21/2016 has revealed that there are 20 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL DYNAMICS OTS	*9236 E HALL RD*	*WNW 0 - 1/8 (0.027 mi.)*	*E13*	*23*
FINE MACHINE INC	*11255 WOODRUFF AVE*	*NE 0 - 1/8 (0.039 mi.)*	*B18*	*36*
FIRESTONE CHRYSLER P	*9262 E FIRESTONE BLV*	*NNE 0 - 1/8 (0.080 mi.)*	*28*	*45*
PLAZA CLEANERS	*9304 1/4 E FIRESTONE*	*NNE 0 - 1/8 (0.120 mi.)*	*K36*	*58*
RAHNS FURNITURE REFI	*9102 FIRESTONE*	*NNW 1/8 - 1/4 (0.148 mi.)*	*M42*	*62*
GOODYEAR TIRE STORE	*9245 E FIRESTONE BLV*	*N 1/8 - 1/4 (0.149 mi.)*	*J43*	*64*
SHELL SERVICE STATIO	*9305 E FIRESTONE*	*NNE 1/8 - 1/4 (0.162 mi.)*	*K49*	*73*

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PENSKE TOYOTA	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***M51***	***77***
LOPEZ TRANSMISSION	***9524 E FIRESTONE BLV***	***E 1/8 - 1/4 (0.215 mi.)***	***P60***	***105***
60 MINUTE TUNE DOWNE	9536B FIRESTONE BLVD	E 1/8 - 1/4 (0.233 mi.)	P67	116
60 MINUTE TUNE DOWNE	***9536B FIRESTONE BLVD***	***E 1/8 - 1/4 (0.233 mi.)***	***P68***	***118***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOULD-BROWN BOVERI	***11711 WOODRUFF AVE***	***E 0 - 1/8 (0.012 mi.)***	***8***	***18***
INDUSTRIAL BUILDING	***11908 12 WOODRUFF AV***	***SE 0 - 1/8 (0.012 mi.)***	***C9***	***19***
NORTHERN TRUST BANK	***11911 WOODRUFF AVE***	***SE 0 - 1/8 (0.028 mi.)***	***C16***	***34***
MCGEAN CHEM CO INC	***9520 E CEE BEE DR***	***ESE 0 - 1/8 (0.104 mi.)***	***I29***	***48***
MCGEAN-ROHCO INC	***9520 E CEE BEE DRIVE***	***ESE 0 - 1/8 (0.104 mi.)***	***I30***	***50***
KIRKHILL INC	***12021 WOODRUFF AVE***	***SSE 1/8 - 1/4 (0.168 mi.)***	***N54***	***89***
CLASSIC GRAPHIX	***9459 WASHBURN RD***	***S 1/8 - 1/4 (0.214 mi.)***	***Q59***	***102***
SO CALIF GAS CO/DOWN	***9407 WASHBURN RD***	***SSW 1/8 - 1/4 (0.226 mi.)***	***R64***	***114***
STUD WELDING PRODUCT	***9455 WASHBURN ROAD***	***S 1/8 - 1/4 (0.233 mi.)***	***Q71***	***121***

RCRA-CESQG: 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.

A review of the RCRA-CESQG list, as provided by EDR, and dated 06/21/2016 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WALGREENS #10112	9018 FIRESTONE BLVD	NNW 1/8 - 1/4 (0.248 mi.)	S73	127

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/01/2016 has revealed that there are 15 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OLIN ORDINANCE	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***E14***	***27***
Facility Id: 71002450				

Status: Refer: Local Agency

PIH HEALTH HOSPITAL	***11500 BROOKSHIRE AVE***	***WNW 1/2 - 1 (0.615 mi.)***	***104***	***201***
Facility Id: 71003236				
Status: Refer: Other Agency				
PEACOCK ENGINEERING	***10620 EAST FIRESTONE***	***ESE 1/2 - 1 (0.634 mi.)***	***105***	***206***
Facility Id: 19350006				
Status: Refer: Other Agency				
DOWNEY USD	***11040 BROOKSHIRE AVE***	***NNW 1/2 - 1 (0.665 mi.)***	***107***	***209***
Facility Id: 19820097				
Status: No Further Action				
EAST MIDDLE SCHOOL	***10301 WOODRUFF AVENU***	***NNE 1/2 - 1 (0.828 mi.)***	***111***	***224***
Facility Id: 19820106				
Status: Inactive - Withdrawn				

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
VULTEE TRAINING FIEL		WSW 1/4 - 1/2 (0.500 mi.)	X98	190
Facility Id: 80000863				
Status: Inactive - Needs Evaluation				
AIR FORCE PLANT #16		WSW 1/4 - 1/2 (0.500 mi.)	X99	191
Facility Id: 80000160				
Status: Inactive - Needs Evaluation				
MANUFACTURERS WIRE C	***12320 WOODRUFF AVE***	***SSE 1/2 - 1 (0.538 mi.)***	***101***	***193***
Facility Id: 71003652				
Status: Refer: Other Agency				
DOWNEY FAMILY HOUSIN		W 1/2 - 1 (0.542 mi.)	102	198
Facility Id: 80000075				
Status: Inactive - Needs Evaluation				
ARROW TRANSPORTATION	***12328 WOODRUFF AVENU***	***SSE 1/2 - 1 (0.555 mi.)***	***103***	***199***
Facility Id: 71002480				
Status: Refer: Other Agency				
QM BULK STORAGE FAC		SSE 1/2 - 1 (0.639 mi.)	106	208
Facility Id: 80000423				
Status: Inactive - Needs Evaluation				
VULTEE AIRCRAFT CO		SW 1/2 - 1 (0.665 mi.)	108	219
Facility Id: 80000851				
Status: Inactive - Needs Evaluation				
NASA INDUSTRIAL PLAN	***12214 LAKEWOOD BLVD.***	***WSW 1/2 - 1 (0.818 mi.)***	***110***	***220***
Facility Id: 19370366				
Status: No Further Action				
COSTCO WHOLESALE NO	***12324 HOXIE AVE***	***SE 1/2 - 1 (0.953 mi.)***	***112***	***227***
Facility Id: 71003261				
Status: Refer: Other Agency				
SUSSMAN MIDDLE SCHOO	***12500 BIRCHDALE AVEN***	***WSW 1/2 - 1 (0.962 mi.)***	***113***	***236***
Facility Id: 19820107				
Status: No Further Action				

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 3 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DOWNEY DUMP	9612 ARDINE STREET	ENE 1/4 - 1/2 (0.398 mi.)	88	170
Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016				
Database: LOS ANGELES CO. LF, Date of Government Version: 07/15/2016				
Facility ID: 19-AA-5382				
Site ID: 1920				
Status: Closed				
Operational Status: Closed				
Regulation Status: Pre-regulations				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROSECRANS AVE. / WOO	LINDALE AVE/CORNUTA	0 - 1/8 (0.000 mi.)	A6	13
Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016				
Facility ID: 19-AA-5345				
Operational Status: Closed				
Regulation Status: Unpermitted				
DOWNEY AREA RECYCLIN	***9770 WASHBURN ROAD***	***SE 1/4 - 1/2 (0.350 mi.)***	***82***	***146***
Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016				
Database: LOS ANGELES CO. LF, Date of Government Version: 07/15/2016				
Facility ID: 19-AA-0801				
Site ID: 181				
Status: Active				
Operational Status: Active				
Regulation Status: Permitted				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 21 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTERN PACIFIC PULP	***9350 HALL RD***	***NE 0 - 1/8 (0.002 mi.)***	***B7***	***14***
Database: LUST, Date of Government Version: 09/12/2016				
Database: LUST REG 4, Date of Government Version: 09/07/2004				
Status: Completed - Case Closed				
Facility Id: I-13583				
Status: Case Closed				

Global ID: T0603704078
Global Id: T0603704078

SHELL SERVICE STATIO | 9305 FIRESTONE BLVD. | NNE 1/8 - 1/4 (0.162 mi.) | K46 | 66
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: I-09468A
Status: Pollution Characterization
Global ID: T0603748443

SHELL | ***9305 FIRESTONE BLVD*** | ***NNE 1/8 - 1/4 (0.162 mi.)*** | ***K48*** | ***69***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-09468
Status: Case Closed
Global ID: T0603703423
Global Id: T0603703423
Global Id: T0603748443

MOHAWK SERVICE STTIO | ***11534 LAKEWOOD*** | ***WNW 1/4 - 1/2 (0.291 mi.)*** | ***77*** | ***136***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 902410043
Status: Case Closed
Global ID: T0603701264
Global Id: T0603701264

US RENTALS INC | ***9606 FIRESTONE BLVD*** | ***E 1/4 - 1/2 (0.310 mi.)*** | ***81*** | ***143***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: R-11696
Status: Case Closed
Global ID: T0603705064
Global Id: T0603705064

SHELL | 8767 FIRESTONE BLVD | NNW 1/4 - 1/2 (0.365 mi.) | U84 | 155
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-09470
Status: Case Closed
Global ID: T0603703424
Global Id: T0603703424

THRIFTY #291 | ***10808 LAKEWOOD BLVD*** | ***NNW 1/4 - 1/2 (0.496 mi.)*** | ***97*** | ***186***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-10959
Status: Case Closed
Global ID: T0603703696
Global Id: T0603703696

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOLM INDUSTRIES	9368 STEWART AND GRA	S 0 - 1/8 (0.015 mi.)	D10	21

Database: LUST, Date of Government Version: 09/12/2016

Status: Completed - Case Closed
Global Id: T0603737698

INCO EXPRESS INC ***11941 SOUTH WOODRUFF*** ***SE 0 - 1/8 (0.076 mi.)*** ***H27*** ***43***
Database: LUST, Date of Government Version: 09/12/2016
Status: Completed - Case Closed
Global Id: T0603719104

MCGEAN-ROHCO, INC. ***9520 CEEBEE DR E*** ***ESE 0 - 1/8 (0.104 mi.)*** ***I31*** ***55***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: R-01310
Status: Case Closed
Global ID: T0603704555
Global Id: T0603704555

KIRKHILL INC ***12021 WOODRUFF AVE*** ***SSE 1/8 - 1/4 (0.168 mi.)*** ***N54*** ***89***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-12987
Status: Case Closed
Global ID: T0603704020
Global Id: T0603704020

GENERAL PAVING CO/JO ***9316 WASHBURN RD*** ***SSW 1/4 - 1/2 (0.271 mi.)*** ***74*** ***129***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: R-10910
Status: Case Closed
Global ID: T0603704974
Global Id: T0603704974

VIMAR INC ***9650 WASHBURN RD*** ***SE 1/4 - 1/2 (0.289 mi.)*** ***75*** ***132***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-14214
Status: Case Closed
Global ID: T0603704145
Global Id: T0603704145

CRESCENT TRUCK LINES ***11937 REGENTVIEW AVE*** ***ESE 1/4 - 1/2 (0.289 mi.)*** ***T76*** ***134***
Database: LUST, Date of Government Version: 09/12/2016
Status: Completed - Case Closed
Global Id: T0603714767

LEXINGTON CHEMICALS 11916 REGENTVIEW AVE ESE 1/4 - 1/2 (0.303 mi.) T78 139
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: R-22573
Status: Case Closed
Global ID: T0603705366

LEXINGTON CHEMICALS ***11916 REGENTVIEW AVE*** ***ESE 1/4 - 1/2 (0.303 mi.)*** ***T79*** ***140***
Database: LUST, Date of Government Version: 09/12/2016
Status: Completed - Case Closed
Global Id: T0603705366

A C PETERSON COMPANY ***12207 WOODRUFF AVE S*** ***SSE 1/4 - 1/2 (0.350 mi.)*** ***83*** ***153***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004

Status: Completed - Case Closed
Facility Id: R-09291
Status: Case Closed
Global ID: T0603704798
Global Id: T0603704798

CALSAN INC ***9821 DOWNEY NORWALK*** ***ESE 1/4 - 1/2 (0.366 mi.)*** ***V87*** ***160***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Open - Site Assessment
Facility Id: R-09296
Status: Leak being confirmed
Global ID: T0603793083
Global Id: T0603793083

SEQUEL CONTRACTORS I ***12240 WOODRUFF AVE*** ***SSE 1/4 - 1/2 (0.445 mi.)*** ***90*** ***172***
Database: LUST, Date of Government Version: 09/12/2016
Status: Completed - Case Closed
Global Id: T0603754702

COCA-COLA ENTERPRISE ***8729 CLETA ST*** ***WNW 1/4 - 1/2 (0.448 mi.)*** ***W92*** ***176***
Database: LUST, Date of Government Version: 09/12/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-12279
Status: Case Closed
Global ID: T0603703951
Global Id: T0603703951

ASTRO PAK FACILITY F 8708 CLETA ST WNW 1/4 - 1/2 (0.463 mi.) W93 180
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: R-16168
Status: Pollution Characterization
Global ID: T0603705274

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there are 5 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PRIMEX TECHNOLOGIES	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***E12***	***23***
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required				
OLIN ORDINANCE	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***E14***	***27***
Database: SLIC, Date of Government Version: 09/12/2016 Facility Status: Completed - Case Closed Global Id: SLT43200198				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ASTRO PAK FACILITY	12201 PANGBORN	SSE 1/4 - 1/2 (0.427 mi.)	89	172
Database: SLIC, Date of Government Version: 09/12/2016 Database: SLIC REG 4, Date of Government Version: 11/17/2004				

Facility Status: Completed - Case Closed
Facility Status: No further action required
Global Id: SL599992903

ASTRO PAK CORP. ***8700 CLETA STREET*** ***WNW 1/4 - 1/2 (0.476 mi.)*** ***W95*** ***182***
Database: SLIC, Date of Government Version: 09/12/2016
Database: SLIC REG 4, Date of Government Version: 11/17/2004
Facility Status: Open - Remediation
Facility Status: Remediation
Global Id: SL2044E1590

ALPASE, INC. ***9750 SEAACA*** ***SE 1/4 - 1/2 (0.496 mi.)*** ***96*** ***184***
Database: SLIC, Date of Government Version: 09/12/2016
Database: SLIC REG 4, Date of Government Version: 11/17/2004
Facility Status: Completed - Case Closed
Facility Status: No further action required
Global Id: SL184161399

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PRIMEX TECHNOLOGIES	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***E12***	***23***
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 22299				
U R SHELL	9305 FIRESTONE BLVD	NNE 1/8 - 1/4 (0.162 mi.)	K45	65
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 26258				
CAR WASH USA- MINI M	9534 FIRESTONE BLVD	E 1/8 - 1/4 (0.228 mi.)	P66	116
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 21743				

Lower Elevation	Address	Direction / Distance	Map ID	Page
COAST POLYMERS INC	9368 STEWART AND GRA	S 0 - 1/8 (0.015 mi.)	D11	23
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 14427				
INCO EXPRESS INC	***11941 WOODRUFF AVE***	***SE 0 - 1/8 (0.076 mi.)***	***H26***	***42***
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 12833				
SOUTHERN CALIFORNIA	9407 WASHBURN RD	SSW 1/8 - 1/4 (0.226 mi.)	R63	114
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 12689				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 5 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	9136 E FIRESTONE BLV	NNW 1/8 - 1/4 (0.163 mi.)	M50	76
PENSKE TOYOTA	***9136 E FIRESTONE BLV***	***NNW 1/8 - 1/4 (0.163 mi.)***	***M52***	***85***
Not reported	9534 FIRESTONE BLVD	E 1/8 - 1/4 (0.228 mi.)	P65	116
DOWNEY CAR CARE CENT	9536 FIRESTONE BLVD	E 1/8 - 1/4 (0.233 mi.)	P70	120

Lower Elevation	Address	Direction / Distance	Map ID	Page
CUMMINS PACIFIC, LLC	9520 STEWART AND GRA	ESE 1/8 - 1/4 (0.130 mi.)	L40	61

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 2 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DOWNEY DUMP	11014 PANGHORN	ENE 1/4 - 1/2 (0.309 mi.)	80	142

Lower Elevation	Address	Direction / Distance	Map ID	Page
DOWNEY AREA RECYCLIN	***9770 WASHBURN ROAD***	***SE 1/4 - 1/2 (0.350 mi.)***	***82***	***146***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 15 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTERN PACIFIC PULP Status: A Tank Status: A Comp Number: 13583	***9350 HALL RD***	***NE 0 - 1/8 (0.002 mi.)***	***B7***	***14***
GENERAL DYNAMICS OTS Status: A	***9236 E HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***E15***	***29***

Tank Status: A Comp Number: 11695				
FIRESTONE CHRYSLER P Status: A Comp Number: 13115	***9262 E FIRESTONE BLV***	***NNE 0 - 1/8 (0.080 mi.)***	***28***	***45***
SAN FERNANDO CREAMER Status: A Comp Number: 13561	9220 E FIRESTONE BLV	N 1/8 - 1/4 (0.128 mi.)	J39	60
SHELL OIL #204-2250- Status: A Tank Status: A Comp Number: 9468	***9305 FIRESTONE BLVD***	***NNE 1/8 - 1/4 (0.162 mi.)***	***K47***	***67***
PENSKE TOYOTA Status: A Tank Status: A Comp Number: 11032	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***M51***	***77***
CAR WASH USA Status: A Tank Status: A Comp Number: 14512	9514 FIRESTONE BLVD	E 1/8 - 1/4 (0.210 mi.)	P58	100
RAY ENGINEERING Status: A Comp Number: 14115	***9536 FIRESTONE BL***	***E 1/8 - 1/4 (0.233 mi.)***	***P69***	***119***

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
GOLDEN W PIPE & SUPP Status: A Comp Number: 11251	11700 WOODRUFF AVE	E 0 - 1/8 (0.069 mi.)	21	40
CITY OF DOWNEY Status: A Tank Status: A Comp Number: 11659	***9252 STEWART RD***	***SW 0 - 1/8 (0.073 mi.)***	***G23***	***41***
METALSOURCE Status: A Comp Number: 10350	***11939 WOODRUFF AVE***	***SE 0 - 1/8 (0.074 mi.)***	***H25***	***42***
INCO EXPRESS INC Status: A Tank Status: A Comp Number: 12833	***11941 WOODRUFF AVE***	***SE 0 - 1/8 (0.076 mi.)***	***H26***	***42***
MCGEAN-ROHCO INC Status: A Tank Status: A Comp Number: 1310	***9520 E CEE BEE DRIVE***	***ESE 0 - 1/8 (0.104 mi.)***	***I30***	***50***
DARNELL CORP Status: A Comp Number: 964	***12000 WOODRUFF AVE***	***SE 1/8 - 1/4 (0.176 mi.)***	***O55***	***93***
DOWNEY Status: A Tank Status: A	***9407 WASHBURN RD***	***SSW 1/8 - 1/4 (0.226 mi.)***	***R62***	***113***

EXECUTIVE SUMMARY

Comp Number: 12689

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 10 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL DYNAMICS OTS	***9236 E HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***E15***	***29***
FIRESTONE CHRYSLER P	***9262 E FIRESTONE BLV***	***NNE 0 - 1/8 (0.080 mi.)***	***28***	***45***
Facility Id: 00000067704				
SHELL SERVICE STATIO	***9305 E FIRESTONE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***K49***	***73***
PENSKE TOYOTA	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***M51***	***77***
Facility Id: 00000034117				
RAY ENGINEERING	***9536 FIRESTONE BL***	***E 1/8 - 1/4 (0.233 mi.)***	***P69***	***119***
Facility Id: 00000052888				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WATER YARD	9252 STEWART AND GRA	SW 0 - 1/8 (0.073 mi.)	G22	40
Facility Id: 00000047215				
INCO EXPRESS INC	***11941 SOUTH WOODRUFF***	***SE 0 - 1/8 (0.076 mi.)***	***H27***	***43***
KIRKHILL INC	***12021 WOODRUFF AVENU***	***SSE 1/8 - 1/4 (0.168 mi.)***	***N53***	***87***
REGENT MFG CO., INC.	***11905 REGENTVIEW***	***ESE 1/8 - 1/4 (0.184 mi.)***	***57***	***98***
Facility Id: 00000006431				
DOWNEY	***9407 WASHBURN RD***	***SSW 1/8 - 1/4 (0.226 mi.)***	***R62***	***113***
Facility Id: 00000007497				

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 4 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL DYNAMICS OTS	***9236 E HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***E15***	***29***
Facility Id: 19000752				
Status: A				
SHELL OIL #204-2250-	***9305 FIRESTONE BLVD***	***NNE 1/8 - 1/4 (0.162 mi.)***	***K47***	***67***
Facility Id: 19002081				
Status: A				
PENSKE TOYOTA	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***M51***	***77***
Facility Id: 19028911				
Status: A				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF DOWNEY	***9252 STEWART RD***	***SW 0 - 1/8 (0.073 mi.)***	***G23***	***41***

Facility Id: 19054986
Status: A

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/21/2016 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DARNELL CORP	***12000 WOODRUFF AVE***	***SE 1/8 - 1/4 (0.176 mi.)***	***O55***	***93***
FUJI PHOTO FILM U S	***12010 WOODRUFF AVE S***	***SE 1/8 - 1/4 (0.176 mi.)***	***O56***	***96***
RITE ENGINEERING AND	***9441 WASHBURN RD***	***S 1/8 - 1/4 (0.226 mi.)***	***Q61***	***107***

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AIR FORCE PLANT #16		WSW 1/2 - 1 (0.503 mi.)	X100	192

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 06/02/2016 has revealed that there are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
REED GRAIN & MILLING EPA Id: CAL000371058	***11814 WOODRUFF AVE***	***ESE 0 - 1/8 (0.044 mi.)***	***F20***	***39***
SR MAINTENANCE & MAN EPA Id: CAL000367231	***9525 STEWART AND GRA***	***E 1/8 - 1/4 (0.138 mi.)***	***L41***	***61***

EXECUTIVE SUMMARY

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 16 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTERN PACIFIC PULP Reg Id: I-13583	***9350 HALL RD***	***NE 0 - 1/8 (0.002 mi.)***	***B7***	***14***
SHELL Reg Id: I-09468	***9305 FIRESTONE BLVD***	***NNE 1/8 - 1/4 (0.162 mi.)***	***K48***	***69***
MOHAWK SERVICE STTIO Reg Id: 902410043	***11534 LAKEWOOD***	***WNW 1/4 - 1/2 (0.291 mi.)***	***77***	***136***
US RENTALS INC Reg Id: R-11696	***9606 FIRESTONE BLVD***	***E 1/4 - 1/2 (0.310 mi.)***	***81***	***143***
SHELL STATION Reg Id: I-09470	***8767 FIRESTONE***	***NNW 1/4 - 1/2 (0.365 mi.)***	***U85***	***157***
THRIFTY #291 Reg Id: I-10959	***10808 LAKEWOOD BLVD***	***NNW 1/4 - 1/2 (0.496 mi.)***	***97***	***186***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MCGEAN-ROHCO, INC. Reg Id: R-01310	***9520 CEEBEE DR E***	***ESE 0 - 1/8 (0.104 mi.)***	***I31***	***55***
APTOS ESPLANADE PUMP Reg Id: 3045	12007 WOODRUFF	SSE 1/8 - 1/4 (0.152 mi.)	N44	65
KIRKHILL INC Reg Id: I-12987	***12021 WOODRUFF AVE***	***SSE 1/8 - 1/4 (0.168 mi.)***	***N54***	***89***
GENERAL PAVING CO/JO Reg Id: R-10910	***9316 WASHBURN RD***	***SSW 1/4 - 1/2 (0.271 mi.)***	***74***	***129***
VIMAR INC Reg Id: I-14214	***9650 WASHBURN RD***	***SE 1/4 - 1/2 (0.289 mi.)***	***75***	***132***
LEXINGTON CHEMICALS Reg Id: R-22573	***11916 REGENTVIEW AVE***	***ESE 1/4 - 1/2 (0.303 mi.)***	***T79***	***140***
A C PETERSON COMPANY Reg Id: R-09291	***12207 WOODRUFF AVE S***	***SSE 1/4 - 1/2 (0.350 mi.)***	***83***	***153***
SITE 24, TANK #2 Reg Id: 2766	9821 DOWNEYNORWALK	ESE 1/4 - 1/2 (0.366 mi.)	V86	160
COCA-COLA ENTERPRISE Reg Id: I-12279	***8729 CLETA ST***	***WNW 1/4 - 1/2 (0.448 mi.)***	***W92***	***176***
MARY MANDELLA Reg Id: R-16168	***8708 CLETA ST***	***WNW 1/4 - 1/2 (0.463 mi.)***	***W94***	***181***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 09/10/2015 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STORM DRAIN	BELLFLOWER&IMPERIAL	SSW 1/2 - 1 (0.778 mi.)	109	220

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 6 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	9240 FIRESTONE BLVD	N 0 - 1/8 (0.119 mi.)	J34	58
DICK & AL'S SERVICE	9328 E FIRESTONE BLV	NNE 0 - 1/8 (0.121 mi.)	K37	60
Database: EDR Hist Auto, Date of Government Version: 02/20/2007				
KENNY'S SERVICE	9328 FIRESTONE BLVD	NNE 0 - 1/8 (0.121 mi.)	K38	60
Database: EDR Hist Auto, Date of Government Version: 02/20/2007				

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	11860 WOODRUFF AVE	ESE 0 - 1/8 (0.038 mi.)	F17	35
Not reported	11840 WOODRUFF AVE	ESE 0 - 1/8 (0.044 mi.)	F19	38
Not reported	11939 WOODRUFF AVE	SE 0 - 1/8 (0.074 mi.)	H24	41

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 3 EDR Hist

EXECUTIVE SUMMARY

Cleaner sites within approximately 0.125 miles of the target property.

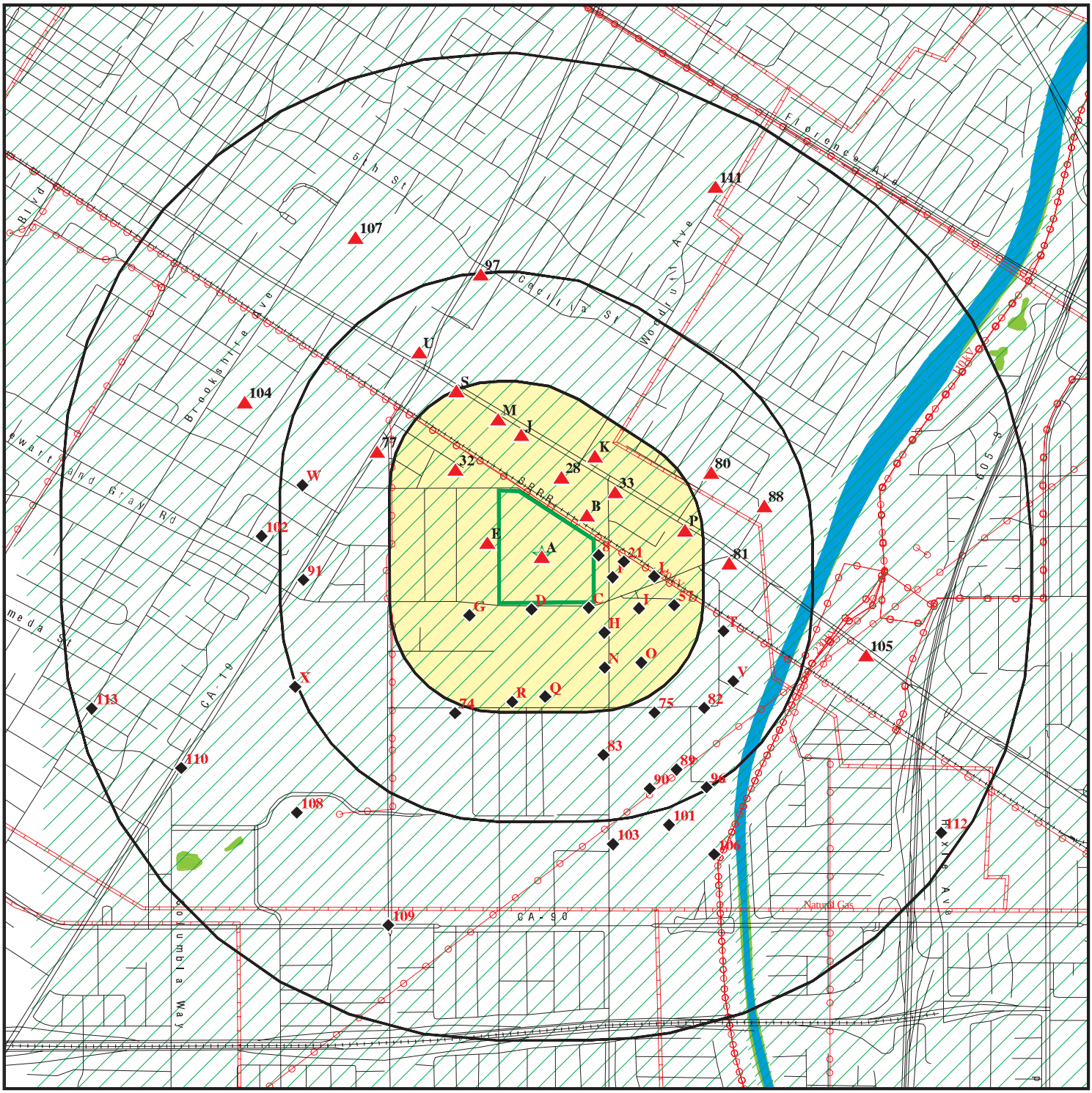
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	9128 MARGARET ST	NW 0 - 1/8 (0.110 mi.)	32	57
CITY CLEANERS & TAIL	9400 FIRESTONE BLVD	NE 0 - 1/8 (0.118 mi.)	33	58
Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007				
LLOYD'S CLEANERS	9312 E FIRESTONE BLV	NNE 0 - 1/8 (0.120 mi.)	K35	58
Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
STONEWOOD CENTER	SLIC

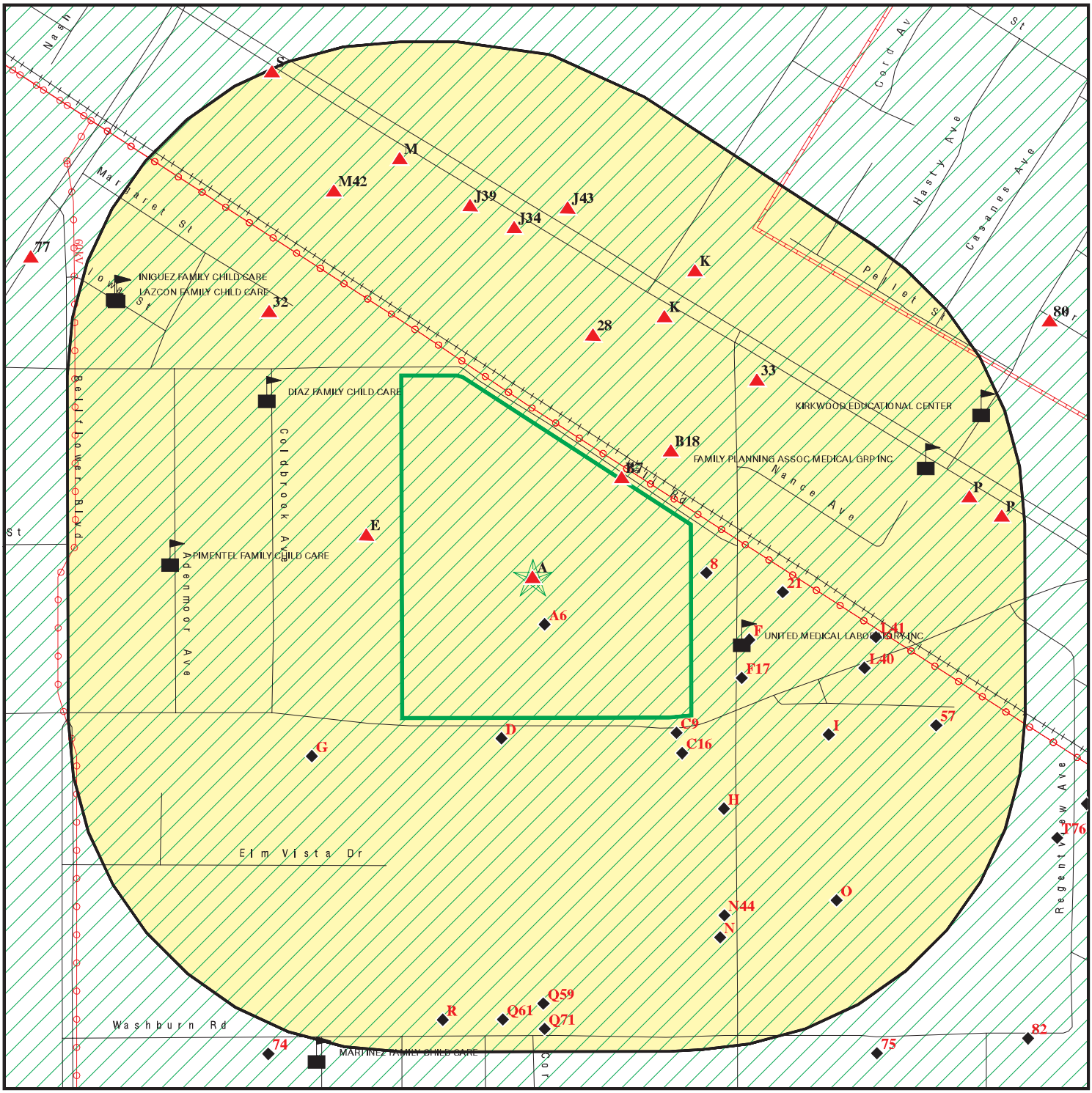
OVERVIEW MAP - 4793830.2S



SITE NAME:	Downey Industrial Center	CLIENT:	AES Due Diligence, Inc
ADDRESS:	9300 Hall Rd Et AL Downey CA 90241	CONTACT:	Kathi Johnson
		INQUIRY #:	4793830.2s
LAT/LONG:	33.929316 / 118.119358	DATE:	December 01, 2016 6:28 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 4793830.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 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:	Downey Industrial Center	CLIENT:	AES Due Diligence, Inc
ADDRESS:	9300 Hall Rd Et AL Downey CA 90241	CONTACT:	Kathi Johnson
		INQUIRY #:	4793830.2s
LAT/LONG:	33.929316 / 118.119358	DATE:	December 01, 2016 6:29 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		9	11	NR	NR	NR	20
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		1	0	2	12	NR	15
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		1	0	2	NR	NR	3
State and tribal leaking storage tank lists								
LUST	0.500		4	3	14	NR	NR	21

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		2	0	3	NR	NR	5
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		3	3	NR	NR	NR	6
AST	0.250		0	5	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	2	NR	NR	2
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	8	7	NR	NR	NR	16
HIST UST	0.250		4	6	NR	NR	NR	10
CA FID UST	0.250		2	2	NR	NR	NR	4
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	3	NR	NR	NR	4
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		1	1	NR	NR	NR	2
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	3	0	NR	NR	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST CORTESE	0.500		2	3	11	NR	NR	16
LOS ANGELES CO. HMS	0.001	1	0	NR	NR	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		6	NR	NR	NR	NR	6
EDR Hist Cleaner	0.125		3	NR	NR	NR	NR	3
- Totals --		8	46	46	35	14	0	149

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **AEROJET ORDNANCE CO** **LOS ANGELES CO. HMS** **S113743800**
Target **9300 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 1 of 6 in cluster A

Actual:
110 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 010688-010632
Facility Type: Not reported
Facility Status: Removed
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

A2 **INTERSECTION DEVELOPMENT CORP** **RCRA NonGen / NLR** **1001217515**
Target **9300 E HALL RD** **FINDS** **CAR000036079**
Property **DOWNEY, CA 90241** **HAZNET**
ECHO

Site 2 of 6 in cluster A

Actual:
110 ft.

RCRA NonGen / NLR:
Date form received by agency: 11/22/1999
Facility name: INTERSECTION DEVELOPMENT CORP
Facility address: 9300 E HALL RD
DOWNEY, CA 90241
EPA ID: CAR000036079
Contact: GREGORY ODION
Contact address: 9603 JOHN ST
SANTA FE SPRINGS, CA 90670
Contact country: US
Contact telephone: (562) 923-9600
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: DISPLAY TECHNOLOGIES INC
Owner/operator address: 9300 E HALL RD
DOWNEY, CA 90241
Owner/operator country: Not reported
Owner/operator telephone: (562) 923-9600
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: 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

INTERSECTION DEVELOPMENT CORP (Continued) **1001217515**

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110002920858

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Detergent waste chemicals
Disposal Method: Transfer Station
Tons: .2293
Cat Decode: Detergent waste chemicals
Method Decode: Transfer Station
Facility County: Los Angeles

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148

INTERSECTION DEVELOPMENT CORP (Continued) **1001217515**

TSD County: Not reported
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Transfer Station
Tons: .2501
Cat Decode: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Method Decode: Transfer Station
Facility County: Los Angeles

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Transfer Station
Tons: .2185
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Transfer Station
Facility County: Los Angeles

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Tons: .2000
Cat Decode: Other inorganic solid waste
Method Decode: Transfer Station
Facility County: Los Angeles

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station

INTERSECTION DEVELOPMENT CORP (Continued) **1001217515**

Tons: 2.2935
Cat Decode: Waste oil and mixed oil
Method Decode: Transfer Station
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

ECHO:
Envid: 1001217515
Registry ID: 110002920858
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002920858

A3 Target Property **OMNI TEAM INC**
9300 HALL RD
DOWNEY, CA 90241

HAZNET **S112933674**
N/A

Site 3 of 6 in cluster A

Actual: 110 ft.

HAZNET:
envid: S112933674
Year: 2003
GEPAID: CAC002571513
Contact: LOUIE DIAZ
Telephone: 8004239660
Mailing Name: Not reported
Mailing Address: 9300 HALL RD
Mailing City,St,Zip: DOWNEY, CA 90241
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Alkaline solution without metals pH >= 12.5
Disposal Method: Disposal, Land Fill
Tons: 0.22
Cat Decode: Alkaline solution without metals pH >= 12.5
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S112933674
Year: 2003
GEPAID: CAC002571513
Contact: LOUIE DIAZ
Telephone: 8004239660
Mailing Name: Not reported
Mailing Address: 9300 HALL RD
Mailing City,St,Zip: DOWNEY, CA 90241
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 0.45
Cat Decode: Waste oil and mixed oil
Method Decode: Recycler
Facility County: Los Angeles

A4 **AEROJET ORDNANCE CO** **SWEEPS UST** **S104537182**
Target **9300 E HALL RD** **N/A**
Property **DOWNEY, CA**

Site 4 of 6 in cluster A

Actual:
110 ft.

SWEEPS UST:

Status:	Active
Comp Number:	10632
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

A5 **OMNI TEAM INC** **HAZNET** **S112963204**
Target **9300 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 5 of 6 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S112963204
Year:	2007
GEPAID:	CAC002619449
Contact:	BOB WARWICK
Telephone:	5629239660
Mailing Name:	Not reported
Mailing Address:	9300 HALL RD
Mailing City,St,Zip:	DOWNEY, CA 90241
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.3
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S112963204
Year:	2007
GEPAID:	CAC002619449
Contact:	BOB WARWICK
Telephone:	5629239660
Mailing Name:	Not reported
Mailing Address:	9300 HALL RD
Mailing City,St,Zip:	DOWNEY, CA 90241
Gen County:	Not reported

OMNI TEAM INC (Continued) **S112963204**

TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.18
Cat Decode:	Unspecified solvent mixture
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles

A6 **ROSECRANS AVE. / WOODRUFFAVE. DUMP** **SWF/LF** **S104493080**
LINDALE AVE/CORNUTA AVE/IBBETSON AVE. **N/A**
< 1/8 **BELLFLOWER, CA**
1 ft.

Site 6 of 6 in cluster A

Relative:
Lower

Actual:
109 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-5345
Lat/Long:	33.9288 / -118.1192
Owner Name:	Unknown
Owner Telephone:	Not reported
Owner Address:	Not reported
Owner Address2:	P.O. Box 5
Owner City,St,Zip:	Fairfield, CA 94533
Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Industrial,Commercial
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Annual
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	19-AA-5345
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	0
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	0
Remaining Capacity:	0
Remaining Capacity with Units:	Not reported
Lat/Long:	33.9288 / -118.1192

B7 **WESTERN PACIFIC PULP & PAPER** **LUST** **S101442129**
NE **9350 HALL RD** **SWEEPS UST** **N/A**
< 1/8 **DOWNEY, CA 90241** **HAZNET**
0.002 mi. **HIST CORTESE**
9 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
112 ft.

LUST:

Region:	STATE
Global Id:	T0603704078
Latitude:	33.9292609
Longitude:	-118.118582
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/20/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-13583
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704078
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704078
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704078
Status:	Completed - Case Closed
Status Date:	08/20/1996

Global Id:	T0603704078
Status:	Open - Case Begin Date
Status Date:	01/17/1995

Global Id:	T0603704078
Status:	Open - Remediation
Status Date:	07/28/1995

Global Id:	T0603704078

WESTERN PACIFIC PULP & PAPER (Continued) **S101442129**

Status: Open - Site Assessment
Status Date: 01/17/1995

Global Id: T0603704078
Status: Open - Site Assessment
Status Date: 06/09/1995

Regulatory Activities:
Global Id: T0603704078
Action Type: Other
Date: 01/17/1995
Action: Leak Stopped

Global Id: T0603704078
Action Type: Other
Date: 01/17/1995
Action: Leak Discovery

Global Id: T0603704078
Action Type: Other
Date: 01/17/1995
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-13583
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704078
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: FIRESTONE BLVD
Enforcement Type: Not reported
Date Leak Discovered: 1/17/1995
Date Leak First Reported: 1/17/1995
Date Leak Record Entered: 4/6/1995
Date Confirmation Began: 1/17/1995
Date Leak Stopped: 1/17/1995
Date Case Last Changed on Database: 7/15/1996
Date the Case was Closed: 8/20/1996
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: SAME AS ABOVE
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2305.437252882321166932133028 3

WESTERN PACIFIC PULP & PAPER (Continued) **S101442129**

Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 6/9/1995
Remediation Plan Submitted: 7/28/1995
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Yes
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: BLANK RP
RP Address: PO BOX 241, DOWNEY, CA 90241
Program: LUST
Lat/Long: 33.9305013 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

SWEEPS UST:
Status: Active
Comp Number: 13583
Number: 9
Board Of Equalization: 44-010191
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-013583-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 2

Status: Active
Comp Number: 13583
Number: 9
Board Of Equalization: 44-010191
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-013583-000002
Tank Status: A
Capacity: Not reported

WESTERN PACIFIC PULP & PAPER (Continued) **S101442129**

Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HAZNET:
envid: S101442129
Year: 2014
GEPAID: CAD981694292
Contact: RANDY MILLS PLANT MANAGER
Telephone: 5628034401
Mailing Name: Not reported
Mailing Address: 9350 HALL RD
Mailing City,St,Zip: DOWNEY, CA 902415309
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.9
Cat Decode: Other organic solids
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S101442129
Year: 2013
GEPAID: CAD981694292
Contact: RANDY MILLS PLANT MANAGER
Telephone: 5628034401
Mailing Name: Not reported
Mailing Address: 9350 HALL RD
Mailing City,St,Zip: DOWNEY, CA 902415309
Gen County: Los Angeles
TSD EPA ID: OHD048415665
TSD County: 99
Waste Category: Not reported
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 1.5
Cat Decode: Not reported
Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-13583

8
East
< 1/8
0.012 mi.
61 ft.

GOULD-BROWN BOVERI
11711 WOODRUFF AVE
DOWNEY, CA 90241

RCRA-SQG
FINDS
ECHO

1000278469
CAD062061973

Relative:
Lower

Actual:
109 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	GOULD-BROWN BOVERI
Facility address:	11711 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD062061973
Mailing address:	WOODRUFF AVE DOWNEY, CA 90241
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	GOULD-BROWN BOVERI
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:	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

GOULD-BROWN BOVERI (Continued) **1000278469**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002653049

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000278469
Registry ID: 110002653049
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002653049

C9 **INDUSTRIAL BUILDING** **RCRA-SQG** **1000428498**
SE **11908 12 WOODRUFF AVE** **FINDS** **CAD982323818**
< 1/8 **DOWNEY, CA 90241** **ECHO**
0.012 mi.
63 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
107 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: INDUSTRIAL BUILDING
Facility address: 11908 12 WOODRUFF AVE
DOWNEY, CA 90241
EPA ID: CAD982323818
Mailing address: 5372 VIA APOLINA
YORBA LINDA, CA 92686
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
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:

INDUSTRIAL BUILDING (Continued) **1000428498**

Owner/operator name: JANSEN MIRIAM
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: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/12/1988
Site name: INDUSTRIAL BUILDING
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110006477400

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

INDUSTRIAL BUILDING (Continued) **1000428498**

ECHO:
Envid: 1000428498
Registry ID: 110006477400
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110006477400

D10 **HOLM INDUSTRIES** **LUST** **S108243552**
South **9368 STEWART AND GRAY RD** **N/A**
< 1/8 **DOWNEY, CA 90242**
0.015 mi.
80 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
107 ft.

LUST:
Region: STATE
Global Id: T0603737698
Latitude: 33.92769
Longitude: -118.119772
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/13/2011
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: MB
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-41000
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603737698
Contact Type: Local Agency Caseworker
Contact Name: GILLIAN MINTIER
Organization Name: LOS ANGELES COUNTY
Address: 900 SOUTH FREMONT AVE
City: ALHAMBRA
Email: gmintier@ladpw.org
Phone Number: Not reported

Global Id: T0603737698
Contact Type: Regional Board Caseworker
Contact Name: MANUEL R REGALADO
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: mregalad@dpw.lacounty.gov
Phone Number: Not reported

Global Id: T0603737698
Contact Type: Regional Board Caseworker
Contact Name: MAGDY BAIADY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mbaiady@waterboards.ca.gov
Phone Number: 2135766699

HOLM INDUSTRIES (Continued) **S108243552**

Status History:

Global Id:	T0603737698
Status:	Completed - Case Closed
Status Date:	09/13/2011
Global Id:	T0603737698
Status:	Open - Case Begin Date
Status Date:	08/24/2004
Global Id:	T0603737698
Status:	Open - Referred
Status Date:	04/13/2009
Global Id:	T0603737698
Status:	Open - Site Assessment
Status Date:	11/21/2006
Global Id:	T0603737698
Status:	Open - Site Assessment
Status Date:	06/08/2009

Regulatory Activities:

Global Id:	T0603737698
Action Type:	REMEDIATION
Date:	08/01/2004
Action:	Excavation
Global Id:	T0603737698
Action Type:	ENFORCEMENT
Date:	09/13/2011
Action:	Closure/No Further Action Letter
Global Id:	T0603737698
Action Type:	RESPONSE
Date:	07/08/2009
Action:	Other Report / Document
Global Id:	T0603737698
Action Type:	Other
Date:	08/24/2004
Action:	Leak Discovery
Global Id:	T0603737698
Action Type:	ENFORCEMENT
Date:	06/08/2009
Action:	Staff Letter
Global Id:	T0603737698
Action Type:	Other
Date:	09/22/2004
Action:	Leak Reported

D11
South
< 1/8
0.015 mi.
80 ft.

COAST POLYMERS INC
9368 STEWART AND GRAY RD
DOWNEY, CA 90241

Site 2 of 2 in cluster D

Database(s): UST
EDR ID Number: U003777223
EPA ID Number: N/A

Relative:
Lower

Actual:
107 ft.

UST:
Facility ID: 14427
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.9288711
Longitude: -118.1181417

E12
WNW
< 1/8
0.027 mi.
140 ft.

PRIMEX TECHNOLOGIES
9236 HALL RD
DOWNEY, CA 90241

Site 1 of 4 in cluster E

Database(s): SLIC, UST
EDR ID Number: U003777457
EPA ID Number: N/A

Relative:
Higher

Actual:
110 ft.

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 0302D
Substance: VOCs
Staff: John Geroch

UST:
Facility ID: 22299
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.93107
Longitude: -118.120203

E13
WNW
< 1/8
0.027 mi.
140 ft.

GENERAL DYNAMICS OTS
9236 E HALL RD
DOWNEY, CA 90241

Site 2 of 4 in cluster E

Database(s): RCRA-SQG, FINDS, WDS
EDR ID Number: 1000332997
EPA ID Number: CAD052384328

Relative:
Higher

Actual:
110 ft.

RCRA-SQG:
Date form received by agency: 02/26/2002
Facility name: GENERAL DYNAMICS OTS
Facility address: 9236 E HALL RD
DOWNEY, CA 90241
EPA ID: CAD052384328
Contact: DODWELL DE SILVA
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (562) 904-7412
Contact email: Not reported
EPA Region: 09
Land type: Private
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

GENERAL DYNAMICS OTS (Continued) **1000332997**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/26/2002
Site name: GENERAL DYNAMICS OTS
Classification: Large Quantity Generator

Date form received by agency: 02/13/2001
Site name: GENERAL DYNAMICS OTS (DOWNEY) INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

GENERAL DYNAMICS OTS (Continued) **1000332997**

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 10/12/2000
Site name: PRIMEX TECHNOLOGIES
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: PRIMEX TECHNOLOGIES
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: GENERAL DYNAMICS OTS (DOWNEY) INC
Classification: Large Quantity Generator

Date form received by agency: 02/15/1996
Site name: OLIN ORDNANCE
Classification: Large Quantity Generator

Date form received by agency: 03/24/1994
Site name: AEROJET ORDNANCE
Classification: Large Quantity Generator

Date form received by agency: 02/24/1992
Site name: AEROJET ORDNANCE CO
Classification: Large Quantity Generator

Date form received by agency: 03/30/1990
Site name: AEROJET ORDNANCE CO
Classification: Large Quantity Generator

GENERAL DYNAMICS OTS (Continued) **1000332997**

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/07/1990
Date achieved compliance: 11/28/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/10/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/07/1990
Date achieved compliance: 11/28/1990
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: 03/24/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 08/07/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/28/1990
Evaluation lead agency: EPA

FINDS:

Registry ID: 110057118783

Environmental Interest/Information System
STATE MASTER

WDS:
Facility ID: 4 19I011008
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and

GENERAL DYNAMICS OTS (Continued) **1000332997**

	repairing, oil production, storage and disposal operations, water pumping.
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:	5629047412
Facility Contact:	DODWELL DE SILVA
Agency Name:	GENERAL DYNAMICS OTS
Agency Address:	9236 Hall Rd
Agency City,St,Zip:	Downey 902415308
Agency Contact:	DODWELL DE SILVA
Agency Telephone:	5629047412
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
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 thosewho 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.

E14 **OLIN ORDINANCE** **ENVIROSTOR** **S102061429**
WNW **9236 HALL RD** **SLIC** **N/A**
< 1/8 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.027 mi.
140 ft. **Site 3 of 4 in cluster E**

Relative: Higher

Actual: 110 ft.

ENVIROSTOR:

Facility ID:	71002450
Status:	Refer: Local Agency
Status Date:	05/31/2012
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	0.01
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED

OLIN ORDINANCE (Continued) **S102061429**

Program Manager: Not reported
Supervisor: Steve Lavinger
Division Branch: Cleanup Chatsworth
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.93157
Longitude: -118.1217
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD052384328
Alias Type: EPA Identification Number
Alias Name: 71002450
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 11/17/1997
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 09/24/1999
Global Id: SLT43200198
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.9315741
Longitude: -118.1214448
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 0302D
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

OLIN ORDINANCE (Continued) **S102061429**

Click here to access the California GeoTracker records for this facility:

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 011642-011695
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 00003265T
Permit Status: Closed

E15 **GENERAL DYNAMICS OTS (DOWNEY)** **SWEEPS UST** **S101582616**
WNW **9236 E HALL RD** **HIST UST** **N/A**
< 1/8 **DOWNEY, CA 90241** **CA FID UST**
0.027 mi. **EMI**
140 ft. **Site 4 of 4 in cluster E** **LA Co. Site Mitigation**

Relative: Higher

Actual: 110 ft.

SWEEPS UST:
Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 9

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000006

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000007
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000008
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000009
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Number Of Tanks: Not reported

HIST UST:

File Number:	000261C2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000261C2.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	19000752
Regulated By:	UTNKA
Regulated ID:	00017154
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8180000000
Mail To:	Not reported
Mailing Address:	9236 E HALL RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	DOWNEY
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:	1993
County Code:	19
Air Basin:	SC
Facility ID:	22128
Air District Name:	SC
SIC Code:	2892
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Total Organic Hydrocarbon Gases Tons/Yr:	26
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	22128
Air District Name:	SC
SIC Code:	2892
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:	26
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	101380
Air District Name:	SC
SIC Code:	3489
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:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LA Co. Site Mitigation:

Facility ID:	Not reported
Site ID:	SD0000436
Jurisdiction:	Not reported
Case ID:	RO0001437
Abated:	Yes
Assigned To:	Richard Clark
Entered Date:	Not reported
Abated Date:	Not reported

C16 **NORTHERN TRUST BANK OF CAL NA** **RCRA-SQG** **1000368440**
SE **11911 WOODRUFF AVE** **FINDS** **CAD981620883**
< 1/8 **DOWNEY, CA 90241**
0.028 mi.
146 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
107 ft.

RCRA-SQG:

Date form received by agency:	08/19/1997
Facility name:	NORTHERN TRUST BANK OF CAL NA
Facility address:	11911 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD981620883
Mailing address:	355 SO GRAND AVE STE 2600 LOS ANGELES, CA 90071
Contact:	ROGER MERRICK
Contact address:	355 SO GRAND AVE STE 2600 LOS ANGELES, CA 90071
Contact country:	US
Contact telephone:	(213) 346-1300
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:	KEVIN KELLEY
Owner/operator address:	11911 WOODRUFF AVE DOWNEY, CA 90241
Owner/operator country:	Not reported
Owner/operator telephone:	(310) 803-3953
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NORTHERN TRUST AS TRUSTEE
Owner/operator address:	355 SO GRAND AVE STE 2600 LOS ANGELES, CA 90071
Owner/operator country:	Not reported
Owner/operator telephone:	(213) 346-1371
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:	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

NORTHERN TRUST BANK OF CAL NA (Continued) **1000368440**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/19/1997
Site name: NORTHERN TRUST BANK OF CAL NA
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

Date form received by agency: 09/01/1996
Site name: NORTHERN TRUST BANK OF CAL NA
Classification: Small Quantity Generator

Date form received by agency: 09/10/1994
Site name: NORTHERN TRUST BANK OF CAL NA
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002726872

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

F17 **EDR Hist Auto** **1015175157**
ESE **11860 WOODRUFF AVE** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.038 mi.
200 ft. **Site 1 of 3 in cluster F**

Relative:
Lower

Actual:
107 ft.

EDR Historical Auto Stations:
Name: HANSONS AUTOMOTIVE ENGINEER
Year: 2001
Address: 11860 WOODRUFF AVE

Name: HANSONS AUTOMOTIVE ENGINEERING
Year: 2002
Address: 11860 WOODRUFF AVE

Name: HANSONS AUTOMOTIVE ENGINEERING
Year: 2003
Address: 11860 WOODRUFF AVE

(Continued) **1015175157**

Name: HANSONS AUTOMOTIVE ENGINEERING
Year: 2004
Address: 11860 WOODRUFF AVE

Name: HANSONS AUTOMOTIVE ENGINEER
Year: 2005
Address: 11860 WOODRUFF AVE

B18 **FINE MACHINE INC** **RCRA-SQG** **1000197510**
NE **11255 WOODRUFF AVE** **FINDS** **CAD982049983**
< 1/8 **DOWNEY, CA 90241** **HAZNET**
0.039 mi. **ECHO**
204 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
112 ft.

RCRA-SQG:
Date form received by agency: 10/19/1987
Facility name: FINE MACHINE INC
Facility address: 11255 WOODRUFF AVE
DOWNEY, CA 90241
EPA ID: CAD982049983
Contact: ENVIRONMENTAL MANAGER
Contact address: 11255 WOODRUFF AVE
DOWNEY, CA 90241
Contact country: US
Contact telephone: (213) 861-0819
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: FINE MACHINE INC
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: No

FINE MACHINE INC (Continued) **1000197510**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002788644

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid: 1000197510
Year: 2005
GEPAID: CAD982049983
Contact: OW FINE
Telephone: --
Mailing Name: Not reported
Mailing Address: 11255 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Disposal, Land Fill
Tons: 0.68
Cat Decode: Unspecified oil-containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: 1000197510
Year: 2005
GEPAID: CAD982049983

FINE MACHINE INC (Continued) **1000197510**

Contact:	OW FINE
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	11255 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method:	Disposal, Land Fill
Tons:	0.2
Cat Decode:	Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Method Decode:	Disposal, Land Fill
Facility County:	Los Angeles

ECHO:

Envid:	1000197510
Registry ID:	110002788644
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002788644

F19 **EDR Hist Auto** **1015174941**
ESE **11840 WOODRUFF AVE** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.044 mi.
230 ft. **Site 2 of 3 in cluster F**

Relative:
Lower

Actual:
107 ft.

EDR Historical Auto Stations:

Name:	ARTISTIC BODY SHOP
Year:	1999
Address:	11840 WOODRUFF AVE
Name:	ARTISTIC BODY SHOP
Year:	2001
Address:	11840 WOODRUFF AVE
Name:	ARTISTIC BODY SHOP
Year:	2002
Address:	11840 WOODRUFF AVE
Name:	SUPERSTAR AUTO REPAIR
Year:	2003
Address:	11840 WOODRUFF AVE
Name:	SUPERSTAR AUTO REPAIR
Year:	2009
Address:	11840 WOODRUFF AVE

F20
ESE
< 1/8
0.044 mi.
230 ft.

REED GRAIN & MILLING CO
11814 WOODRUFF AVE
DOWNEY, CA 90241

Site 3 of 3 in cluster F

DRYCLEANERS S112920062
HAZNET N/A

Relative:
Lower

Actual:
107 ft.

DRYCLEANERS:

EPA Id:	CAL000371058
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	01/25/2012
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	SR MAINTENANCE & MANAGEMENT SERVICE
Owner Address:	9525 STEWART AND GRAY RD
Owner Address 2:	Not reported
Owner Telephone:	5627769040
Contact Name:	SERGIO SAN ROMAN
Contact Address:	9525 STEWART & GRAY RD
Contact Address 2:	Not reported
Contact Telephone:	5627769040
Mailing Name:	Not reported
Mailing Address 1:	9525 STEWART AND GRAY RD
Mailing Address 2:	Not reported
Mailing City:	DOWNEY
Mailing State:	CA
Mailing Zip:	902415519
Owner Fax:	3
Region Code:	Not reported

HAZNET:

envid:	S112920062
Year:	2001
GEPAID:	CAC002484447
Contact:	PAM HEINTZ/UNITED PUMPING CO
Telephone:	6269619326
Mailing Name:	Not reported
Mailing Address:	6010 BALL RD STE 201
Mailing City,St,Zip:	CYPRESS, CA 906300000
Gen County:	Not reported
TSD EPA ID:	AZD980892731
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus inorganics
Disposal Method:	Treatment, Incineration
Tons:	0.01
Cat Decode:	Off-specification, aged or surplus inorganics
Method Decode:	Treatment, Incineration
Facility County:	Los Angeles

21
East
< 1/8
0.069 mi.
363 ft.

GOLDEN W PIPE & SUPPLY INC
11700 WOODRUFF AVE
DOWNEY, CA

SWEEPS UST **S106926788**
N/A

Relative:
Lower

Actual:
108 ft.

SWEEPS UST:

Status:	Active
Comp Number:	11251
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

G22
SW
< 1/8
0.073 mi.
388 ft.

WATER YARD
9252 STEWART AND GRAY RD
DOWNEY, CA 90241

Site 1 of 2 in cluster G

HIST UST **U001562944**
N/A

Relative:
Lower

Actual:
107 ft.

HIST UST:

File Number:	00026FDD
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026FDD.pdf
Region:	STATE
Facility ID:	00000047215
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	GREG MAYFIELD
Telephone:	2138697331
Owner Name:	CITY OF DOWNEY
Owner Address:	11111 BROOKSHIRE AVE. CALLER N
Owner City,St,Zip:	DOWNEY, CA 90241
Total Tanks:	0001
Tank Num:	001
Container Num:	#7
Year Installed:	1965
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

G23
SW
< 1/8
0.073 mi.
388 ft.

CITY OF DOWNEY
9252 STEWART RD
DOWNEY, CA

Site 2 of 2 in cluster G

SWEEPS UST **S101587157**
CA FID UST **N/A**

Relative:
Lower

Actual:
107 ft.

SWEEPS UST:

Status:	Active
Comp Number:	11659
Number:	9
Board Of Equalization:	44-009414
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011659-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

CA FID UST:

Facility ID:	19054986
Regulated By:	UTNKA
Regulated ID:	00047215
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8180000000
Mail To:	Not reported
Mailing Address:	12324 BELLFLOWER
Mailing Address 2:	Not reported
Mailing City,St,Zip:	DOWNEY
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

H24
SE
< 1/8
0.074 mi.
391 ft.

11939 WOODRUFF AVE
DOWNEY, CA 90241

Site 1 of 4 in cluster H

EDR Hist Auto **1015176563**
N/A

Relative:
Lower

Actual:
106 ft.

EDR Historical Auto Stations:

Name:	RADIATOR HIGHWAY
Year:	2004
Address:	11939 WOODRUFF AVE

H25 **METALSOURCE** **SWEEPS UST** **S104538812**
SE **11939 WOODRUFF AVE** **LOS ANGELES CO. HMS** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.074 mi.
391 ft. **Site 2 of 4 in cluster H**

Relative:
Lower

Actual:
106 ft.

SWEEPS UST:

Status:	Active
Comp Number:	10350
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	010433-010350
Facility Type:	Not reported
Facility Status:	Removed
Area:	1F
Permit Number:	Not reported
Permit Status:	Not reported

H26 **INCO EXPRESS INC** **UST** **U003777056**
SE **11941 WOODRUFF AVE** **SWEEPS UST** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.076 mi.
403 ft. **Site 3 of 4 in cluster H**

Relative:
Lower

Actual:
106 ft.

UST:

Facility ID:	12833
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	33.92672
Longitude:	-118.11672

SWEEPS UST:

Status:	Active
Comp Number:	12833
Number:	9
Board Of Equalization:	44-009942
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012833-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89

INCO EXPRESS INC (Continued) **U003777056**

Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 3

Status: Active
Comp Number: 12833
Number: 9
Board Of Equalization: 44-009942
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-012833-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 12833
Number: 9
Board Of Equalization: 44-009942
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-012833-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

H27 **INCO EXPRESS INC** **LUST S108723479**
SE **11941 SOUTH WOODRUFF AVENUE** **HIST UST N/A**
< 1/8 **DOWNEY, CA 90241**
0.076 mi.
403 ft. **Site 4 of 4 in cluster H**

Relative:
Lower

Actual:
106 ft.

LUST:
Region: STATE
Global Id: T0603719104
Latitude: 33.926348
Longitude: -118.116705
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/17/2007
Lead Agency: LOS ANGELES COUNTY
Case Worker: TS
Local Agency: LOS ANGELES COUNTY
RB Case Number: Not reported
LOC Case Number: CLUP# 483428

INCO EXPRESS INC (Continued) **S108723479**

File Location: Not reported
Potential Media Affect: Not reported
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603719104
Contact Type: Local Agency Caseworker
Contact Name: TIM SMITH
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: tsmith@dpw.lacounty.gov
Phone Number: Not reported

Global Id: T0603719104
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603719104
Status: Completed - Case Closed
Status Date: 07/17/2007

Global Id: T0603719104
Status: Open - Case Begin Date
Status Date: 09/14/2006

Global Id: T0603719104
Status: Open - Site Assessment
Status Date: 07/16/2007

Regulatory Activities:
Global Id: T0603719104
Action Type: REMEDIATION
Date: 05/09/2006
Action: Not reported

Global Id: T0603719104
Action Type: Other
Date: 09/14/2006
Action: Leak Discovery

Global Id: T0603719104
Action Type: Other
Date: 09/14/2006
Action: Leak Reported

INCO EXPRESS INC (Continued) **S108723479**

HIST UST:

File Number:	00026F57
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026F57.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

28
NNE
< 1/8
0.080 mi.
421 ft.

Relative:
Higher

Actual:
112 ft.

FIRESTONE CHRYSLER PLYMOUTH
9262 E FIRESTONE BLVD
DOWNEY, CA 90241

RCRA-SQG **1000222942**
SWEEPS UST **CAD981979669**
HIST UST
FINDS
LOS ANGELES CO. HMS
ECHO

RCRA-SQG:

Date form received by agency:	04/10/1987
Facility name:	FIRESTONE CHRYSLER PLYMOUTH
Facility address:	9262 E FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAD981979669
Mailing address:	E FIRESTONE BLVD DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9262 E FIRESTONE BLVD DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 803-1515
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:	FENTONWOOD MANAGEMENT
Owner/operator address:	NOT REQUIRED

FIRESTONE CHRYSLER PLYMOUTH (Continued) **1000222942**

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: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

SWEEPS UST:
Status: Active
Comp Number: 13115
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 0002810A

FIRESTONE CHRYSLER PLYMOUTH (Continued) **1000222942**

URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002810A.pdf
Region: STATE
Facility ID: 00000067704
Facility Type: Other
Other Type: NEW CAR DEALER
Contact Name: MARTY MEADOR
Telephone: 2138031515
Owner Name: MS. DORTHY TATTI
Owner Address: 9102 FIRESTONE BLVD.
Owner City,St,Zip: DOWNEY, CA 90241
Total Tanks: 0001

Tank Num: 001
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: 5
Container Construction Thickness: X
Leak Detection: None

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110002763000

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 003452-013115
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 00004840T
Permit Status: Removed

Region: LA
Permit Category: T
Facility Id: 003452-013115
Facility Type: 1
Facility Status: Removed
Area: 1F
Permit Number: 0000T4840
Permit Status: Removed

Region: LA

FIRESTONE CHRYSLER PLYMOUTH (Continued) **1000222942**

Permit Category: I
Facility Id: 003452-I03571
Facility Type: 00
Facility Status: Closed
Area: 1F
Permit Number: 000001618
Permit Status: Closed

ECHO:
Envid: 1000222942
Registry ID: 110002763000
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002763000

I29 **MCGEAN CHEM CO INC** **RCRA-SQG** **1000200129**
ESE **9520 E CEE BEE DR** **FINDS** **CAD072949365**
< 1/8 **DOWNEY, CA 90241** **ECHO**
0.104 mi.
549 ft. **Site 1 of 3 in cluster I**

Relative:
Lower

Actual:
106 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: MCGEAN CHEM CO INC
Facility address: 9520 E CEE BEE DR
DOWNEY, CA 90241
EPA ID: CAD072949365
Mailing address: 9520 EAST CEE BEE DRIVE
DOWNEY, CA 90241
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
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: MCGEAN CHEMICAL CO INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212

MCGEAN CHEM CO INC (Continued) **1000200129**

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: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/05/1981
Site name: MCGEAN CHEM CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002657045

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

STATE MASTER

ECHO:
Envid: 1000200129
Registry ID: 110002657045
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002657045

I30 **MCGEAN-ROHCO INC** **RCRA-SQG** **1000200146**
ESE **9520 E CEE BEE DRIVE** **SWEEPS UST** **CAD981457864**
< 1/8 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.104 mi.
549 ft. **Site 2 of 3 in cluster I**

Relative:
Lower

Actual:
106 ft.

RCRA-SQG:

Date form received by agency:	02/27/2002
Facility name:	MCGEAN-ROHCO INC
Facility address:	9520 E CEE BEE DRIVE DOWNEY, CA 90241
EPA ID:	CAD981457864
Mailing address:	HARVARD AVE CLEVALAND, OH 44105
Contact:	JITENDRA U GANDHI
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(216) 441-4900
Telephone ext.:	3233
Contact email:	JITU.GANDHI@MCGEAN.COM
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

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/27/2002
Site name:	MCGEAN-ROHCO INC
Classification:	Large Quantity Generator

. Waste code: 214
. Waste name: 214

. Waste code: 791
. Waste name: 791

. Waste code: 801

MCGEAN-ROHCO INC (Continued) **1000200146**

. Waste name: 801

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P016
. Waste name: DICHLOROMETHYL ETHER (OR) METHANE, OXYBIS[CHLORO-

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P121
. Waste name: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123

MCGEAN-ROHCO INC (Continued) **1000200146**

. Waste name: FORMIC ACID (C,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U161
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 09/01/1996
Site name: MCGEAN-ROHCO INC
Classification: Small Quantity Generator

Date form received by agency: 04/03/1986
Site name: MCGEAN-ROHCO INC
Classification: Large Quantity Generator

Violation Status: No violations found

SWEEPS UST:
Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 8

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported

MCGEAN-ROHCO INC (Continued) **1000200146**

Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89

MCGEAN-ROHCO INC (Continued) **1000200146**

Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000006
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000007
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000008
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

MCGEAN-ROHCO INC (Continued) **1000200146**

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 001249-001310
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 00002364T
Permit Status: Removed

Region: LA
Permit Category: I
Facility Id: 001249-I01310
Facility Type: 00
Facility Status: Closed
Area: 1F
Permit Number: 00000815X
Permit Status: Closed

I31 **MCGEAN-ROHCO, INC.** **LUST** **S104406626**
ESE **9520 CEEBEE DR E** **HIST CORTESE** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.104 mi.
549 ft. **Site 3 of 3 in cluster I**

Relative:
Lower

Actual:
106 ft.

LUST:
Region: STATE
Global Id: T0603704555
Latitude: 33.9277803
Longitude: -118.1154583
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/20/1998
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-01310
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603704555
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704555
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG

MCGEAN-ROHCO, INC. (Continued) **S104406626**

Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603704555
Status: Completed - Case Closed
Status Date: 07/20/1998

Global Id: T0603704555
Status: Open - Case Begin Date
Status Date: 12/04/1997

Regulatory Activities:
Global Id: T0603704555
Action Type: Other
Date: 12/04/1997
Action: Leak Stopped

Global Id: T0603704555
Action Type: Other
Date: 01/21/1998
Action: Leak Discovery

Global Id: T0603704555
Action Type: Other
Date: 02/18/1998
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-01310
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: OT
Global ID: T0603704555
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: STEWART
Enforcement Type: Not reported
Date Leak Discovered: 1/21/1998
Date Leak First Reported: 2/18/1998
Date Leak Record Entered: 3/25/1998
Date Confirmation Began: Not reported
Date Leak Stopped: 12/4/1997
Date Case Last Changed on Database: 7/20/1998
Date the Case was Closed: 7/20/1998

MCGEAN-ROHCO, INC. (Continued) **S104406626**

How Leak Discovered:	Tank Closure
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	HARVEY HANS
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	1116.8578346358181555817292867
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	MCGEAN-ROHCO, INC.
RP Address:	1250 TERMINAL TOWER, CLEAVELAND OH 44113-2251
Program:	LUST
Lat/Long:	33.9277803 / -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:	CLOSURE APPLICATION #205714

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-01310

---

32 **EDR Hist Cleaner** **1015105529**
NW **9128 MARGARET ST** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.110 mi.
581 ft.

Relative:
Higher

Actual:
112 ft.

EDR Historical Cleaners:

Name:	CRM BEST CLEANING SERVICES
Year:	2005
Address:	9128 MARGARET ST

33
NE
< 1/8
0.118 mi.
624 ft.

CITY CLEANERS & TAILORS
9400 FIRESTONE BLVD
DOWNEY, CA 90239

EDR Hist Cleaner

1009125739
N/A

Relative:
Higher

Actual:
112 ft.

EDR Historical Cleaners:
Name: CITY CLEANERS & TAILORS
Year: 1957
Type: Not reported

J34
North
< 1/8
0.119 mi.
628 ft.

9240 FIRESTONE BLVD
DOWNEY, CA 90241

Site 1 of 3 in cluster J

EDR Hist Auto

1015676687
N/A

Relative:
Higher

Actual:
113 ft.

EDR Historical Auto Stations:
Name: SOUTHERN CALIFORNIA GAS C
Year: 2001
Address: 9240 FIRESTONE BLVD

K35
NNE
< 1/8
0.120 mi.
635 ft.

LLOYD'S CLEANERS
9312 E FIRESTONE BLVD
DOWNEY, CA 90239

Site 1 of 9 in cluster K

EDR Hist Cleaner

1009125799
N/A

Relative:
Higher

Actual:
112 ft.

EDR Historical Cleaners:
Name: LLOYD'S CLEANERS
Year: 1963
Type: Not reported

K36
NNE
< 1/8
0.120 mi.
636 ft.

PLAZA CLEANERS
9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241

Site 2 of 9 in cluster K

RCRA-SQG
FINDS
ECHO

1000472943
CAD982435968

Relative:
Higher

Actual:
112 ft.

RCRA-SQG:
Date form received by agency: 07/15/1996
Facility name: PLAZA CLEANERS
Facility address: 9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241
EPA ID: CAD982435968
Contact: MAGALLANES SOFIA
Contact address: 9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241
Contact country: US
Contact telephone: (310) 803-0224
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

PLAZA CLEANERS (Continued) **1000472943**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MAGALLANES YANEZ SOFIA
Owner/operator address: 9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241
Owner/operator country: Not reported
Owner/operator telephone: (310) 803-0224
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008277765

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

PLAZA CLEANERS (Continued) **1000472943**

Envid: 1000472943
Registry ID: 110008277765
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110008277765

K37 **DICK & AL'S SERVICE** **EDR Hist Auto** **1008995379**
NNE **9328 E FIRESTONE BLVD** **N/A**
< 1/8 **DOWNEY, CA 90239**
0.121 mi.
637 ft. **Site 3 of 9 in cluster K**

Relative:
Higher

Actual:
112 ft.

EDR Historical Auto Stations:
Name: DICK & AL'S SERVICE
Year: 1963
Type: Not reported

K38 **KENNY'S SERVICE** **EDR Hist Auto** **1008995328**
NNE **9328 FIRESTONE BLVD** **N/A**
< 1/8 **DOWNEY, CA 90239**
0.121 mi.
637 ft. **Site 4 of 9 in cluster K**

Relative:
Higher

Actual:
112 ft.

EDR Historical Auto Stations:
Name: KENNY'S SERVICE
Year: 1957
Type: Not reported

J39 **SAN FERNANDO CREAMERY** **SWEEPS UST** **S102061411**
North **9220 E FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.128 mi.
676 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
113 ft.

SWEEPS UST:
Status: Active
Comp Number: 13561
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

L40 **CUMMINS PACIFIC, LLC** **AST** **A100419214**
ESE **9520 STEWART AND GRAY RD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.130 mi.
686 ft. **Site 1 of 2 in cluster L**

Relative:
Lower

Actual:
107 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	MARK YRAGUI
Total Gallons:	Not reported
CERSID:	10303510
Facility ID:	LACoFA0039724
Business Name:	CUMMINS PACIFIC, LLC
Phone:	(562) 415-2800
Fax:	Not reported
Mailing Address:	9520 STEWART & GRAY ROAD
Mailing Address City:	DOWNEY
Mailing Address State:	CA
Mailing Address Zip Code:	90241
Operator Name:	SUSAN MORALES
Operator Phone:	(562) 415-2801
Owner Phone:	(949) 253-6000
Owner Mail Address:	1939 DEERE AVE
Owner State:	CA
Owner Zip Code:	92606
Owner Country:	United States
Property Owner Name:	Mark Yragui
Property Owner Phone:	(949)253-6000
Property Owner Mailing Address:	1939 Deere Ave
Property Owner City:	Irvine
Property Owner Stat :	CA
Property Owner Zip Code:	92606
Property Owner Country:	United States
EPAID:	CAL000326402

L41 **SR MAINTENANCE & MANAGEMENT SERVICES INC** **DRYCLEANERS** **S113157239**
East **9525 STEWART AND GRAY RD** **HAZNET** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.138 mi.
731 ft. **Site 2 of 2 in cluster L**

Relative:
Lower

Actual:
108 ft.

DRYCLEANERS:

EPA Id:	CAL000367231
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	09/07/2011
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	SR MAINTENANCE & MANAGEMENT SERVICE
Owner Address:	9525 STEWART AND GRAY RD
Owner Address 2:	Not reported
Owner Telephone:	5627769040
Contact Name:	SERGIO SAN ROMAN
Contact Address:	9525 STEWART & GRAY RD
Contact Address 2:	Not reported
Contact Telephone:	5627769040
Mailing Name:	Not reported

SR MAINTENANCE & MANAGEMENT SERVICES INC (Continued) **S113157239**

Mailing Address 1:	9525 STEWART AND GRAY RD
Mailing Address 2:	Not reported
Mailing City:	DOWNEY
Mailing State:	CA
Mailing Zip:	902415519
Owner Fax:	3
Region Code:	Not reported

HAZNET:

envid:	S113157239
Year:	2011
GEPAID:	CAL000346959
Contact:	TONY CASILLAS
Telephone:	3233530116
Mailing Name:	Not reported
Mailing Address:	9525 STEWART AND GRAY RD
Mailing City,St,Zip:	DOWNEY, CA 902415519
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.646
Cat Decode:	Waste oil and mixed oil
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

M42 **RAHNS FURNITURE REFINISHING** **RCRA-SQG** **1000319210**
NNW **9102 FIRESTONE** **FINDS** **CAD981643000**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.148 mi.
779 ft. **Site 1 of 4 in cluster M**

Relative:
Higher

Actual:
113 ft.

RCRA-SQG:

Date form received by agency:	01/09/1987
Facility name:	RAHNS FURNITURE REFINISHING
Facility address:	9102 FIRESTONE DOWNEY, CA 90241
EPA ID:	CAD981643000
Mailing address:	FIRESTONE DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9102 FIRESTONE DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 861-5400
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

RAHNS FURNITURE REFINISHING (Continued) **1000319210**

Owner/Operator Summary:

Owner/operator name:	GRANT PAUL RAHN
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:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002736353

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000319210
Registry ID:	110002736353

RAHNS FURNITURE REFINISHING (Continued) **1000319210**

DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002736353

J43 **GOODYEAR TIRE STORE #9226** **RCRA-SQG** **1000194862**
North **9245 E FIRESTONE BLVD** **FINDS** **CAD149983835**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.149 mi.
789 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
113 ft.

RCRA-SQG:

Date form received by agency:	08/11/1986
Facility name:	GOODYEAR TIRE STORE #9226
Facility address:	9245 E FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAD149983835
Mailing address:	E FIRESTONE BLVD DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9245 E FIRESTONE BLVD DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 869-2239
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:	GOODYEAR TIRE & RUBBER 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

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

GOODYEAR TIRE STORE #9226 (Continued) **1000194862**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002668952

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000194862
Registry ID: 110002668952
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002668952

N44 **APTOS ESPLANADE PUMP STAT** **HIST CORTESE** **S103625346**
SSE **12007 WOODRUFF** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.152 mi.
802 ft. **Site 1 of 3 in cluster N**

Relative:
Lower

Actual:
104 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 3045

K45 **U R SHELL** **UST** **U003777927**
NNE **9305 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.162 mi.
854 ft. **Site 5 of 9 in cluster K**

Relative:
Higher

Actual:
113 ft.

UST:
Facility ID: 26258
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.933998
Longitude: -118.115895

K46
NNE
1/8-1/4
0.162 mi.
854 ft.

SHELL SERVICE STATION
9305 FIRESTONE BLVD. E.
DOWNEY, CA

Site 6 of 9 in cluster K

LUST **S106116174**
N/A

Relative:
Higher

Actual:
113 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-09468A	
Status:	Pollution Characterization	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	9640-26258	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603748443	
W Global ID:	Not reported	
Staff:	NC	
Local Agency:	19000	
Cross Street:	WOODRUFF	
Enforcement Type:	SEL	
Date Leak Discovered:	10/23/2002	
Date Leak First Reported:		10/23/2002
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	10/23/2002	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		Not reported
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		Not reported
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		2/7/2003
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		6/19/2003
Hist Max MTBE Conc in Groundwater:		430
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:	JOE LENTINI	
RP Address:	P.O. BOX 7869	
Program:	LUST	
Lat/Long:	0 / 0	
Local Agency Staff:	Not reported	

SHELL SERVICE STATION (Continued) **S106116174**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

K47 **SHELL OIL #204-2250-0601** **SWEEPS UST** **S101582973**
NNE **9305 FIRESTONE BLVD** **CA FID UST** **N/A**
1/8-1/4 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.162 mi.
854 ft. **Site 7 of 9 in cluster K**

Relative:
Higher

Actual:
113 ft.

SWEEPS UST:
Status: Active
Comp Number: 9468
Number: 9
Board Of Equalization: 44-000074
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 9468
Number: 9
Board Of Equalization: 44-000074
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9468
Number: 9
Board Of Equalization: 44-000074
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000003
Tank Status: A

SHELL OIL #204-2250-0601 (Continued) **S101582973**

Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9468
Number: 9
Board Of Equalization: 44-000074
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19002081
Regulated By: UTNKA
Regulated ID: 00016845
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: 9305 E FIRESTONE BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: DOWNEY
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
Permit Category: T
Facility Id: 009640-009468
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 00000654T
Permit Status: Closed

K48 **SHELL** **LUST** **S102436957**
NNE **9305 FIRESTONE BLVD E** **HIST CORTESE** **N/A**
1/8-1/4 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.162 mi.
854 ft. **Site 8 of 9 in cluster K**

Relative:
Higher

Actual:
113 ft.

LUST:

Region:	STATE
Global Id:	T0603703423
Latitude:	33.932631
Longitude:	-118.11722
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/25/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-09468
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703423
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703423
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603703423
Status:	Completed - Case Closed
Status Date:	06/25/1996

Global Id:	T0603703423
Status:	Open - Case Begin Date
Status Date:	10/03/1988

Global Id:	T0603703423
Status:	Open - Site Assessment
Status Date:	10/03/1988

SHELL (Continued) **S102436957**

Regulatory Activities:

Global Id:	T0603703423
Action Type:	Other
Date:	10/17/1988
Action:	Leak Discovery

Global Id:	T0603703423
Action Type:	Other
Date:	06/19/1989
Action:	Leak Reported

Region:	STATE
Global Id:	T0603748443
Latitude:	33.932646
Longitude:	-118.11722
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/29/2004
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	NC
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-09468A
LOC Case Number:	9640-26258
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603748443
Contact Type:	Local Agency Caseworker
Contact Name:	LAURA GAJDOS
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0603748443
Contact Type:	Regional Board Caseworker
Contact Name:	NOMAN CHOWDHURY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	nchowdhury@waterboards.ca.gov
Phone Number:	2135766704

Status History:

Global Id:	T0603748443
Status:	Completed - Case Closed
Status Date:	10/29/2004

Global Id:	T0603748443
Status:	Open - Case Begin Date

SHELL (Continued) **S102436957**

Status Date: 10/23/2002

Global Id: T0603748443
Status: Open - Site Assessment
Status Date: 10/23/2002

Global Id: T0603748443
Status: Open - Site Assessment
Status Date: 02/07/2003

Regulatory Activities:
Global Id: T0603748443
Action Type: ENFORCEMENT
Date: 08/27/2003
Action: Staff Letter

Global Id: T0603748443
Action Type: ENFORCEMENT
Date: 10/29/2004
Action: Closure/No Further Action Letter

Global Id: T0603748443
Action Type: ENFORCEMENT
Date: 10/26/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0603748443
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Annually

Global Id: T0603748443
Action Type: Other
Date: 10/23/2002
Action: Leak Discovery

Global Id: T0603748443
Action Type: Other
Date: 10/23/2002
Action: Leak Reported

Global Id: T0603748443
Action Type: RESPONSE
Date: 10/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603748443

SHELL (Continued) **S102436957**

Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: RESPONSE
Date: 10/30/2003
Action: Other Report / Document

Global Id: T0603748443
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-09468
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703423
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: WOODRUFF
Enforcement Type: Not reported
Date Leak Discovered: 10/17/1988
Date Leak First Reported: 6/19/1989
Date Leak Record Entered: 8/10/1989
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 6/25/1996
Date the Case was Closed: 6/25/1996
How Leak Discovered: OM
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: SAHAKIAN, MOSES
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1543.0562705972426152512772376
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 10/3/1988
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

SHELL (Continued) **S102436957**

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: SHELL OIL COMPANY
RP Address: 9305 FIRESTONE BLVD, DOWNEY, 90241
Program: LUST
Lat/Long: 33.9327483 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-09468

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 009640-058017
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 000748305
Permit Status: Closed

K49 **SHELL SERVICE STATION** **RCRA-SQG** **1006805383**
NNE **9305 E FIRESTONE** **HIST UST** **CAR000126458**
1/8-1/4 **DOWNEY, CA 90241** **FINDS**
0.162 mi. **HAZNET**
854 ft. **Site 9 of 9 in cluster K** **LOS ANGELES CO. HMS**
ECHO

Relative:
Higher

Actual:
113 ft.

RCRA-SQG:
Date form received by agency: 08/16/2002
Facility name: SHELL SERVICE STATION
Facility address: 9305 E FIRESTONE
S A P 135239
DOWNEY, CA 90241
EPA ID: CAR000126458
Mailing address: P O BOX 2648
HOUSTON, TX 772522648
Contact: SONDRA BIENVENU
Contact address: P O BOX 2648
HOUSTON, TX 772522648
Contact country: US
Contact telephone: (713) 241-5036
Contact email: Not reported
EPA Region: 09

SHELL SERVICE STATION (Continued) **1006805383**

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: EQUILON ENTERPRISES L L C
Owner/operator address: P O BOX 2648
HOUSTON, TX 77252
Owner/operator country: Not reported
Owner/operator telephone: (713) 241-5036
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: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

HIST UST:
File Number: 000284D5
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000284D5.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

SHELL SERVICE STATION (Continued) **1006805383**

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110013307689

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZNET:

envid:	1006805383
Year:	2002
GEPAID:	CAR000126458
Contact:	N CORTEZ/ENVT'L DATA ANALYST
Telephone:	2818742224
Mailing Name:	Not reported
Mailing Address:	12700 NORTHBOROUGH DRIVE MFT 240-G
Mailing City,St,Zip:	Houston, TX 770672508
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Tank bottom waste
Disposal Method:	Treatment, Tank
Tons:	0.68
Cat Decode:	Tank bottom waste
Method Decode:	Treatment, Tank
Facility County:	Los Angeles

envid:	1006805383
Year:	2002
GEPAID:	CAR000126458
Contact:	N CORTEZ/ENVT'L DATA ANALYST
Telephone:	2818742224
Mailing Name:	Not reported

SHELL SERVICE STATION (Continued) **1006805383**

Mailing Address: 12700 NORTHBOROUGH DRIVE MFT 240-G
Mailing City,St,Zip: Houston, TX 770672508
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 0.2
Cat Decode: Aqueous solution with total organic residues less than 10 percent
Method Decode: Treatment, Tank
Facility County: Los Angeles

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 009640-056827
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 000711700
Permit Status: Closed

ECHO:
Envid: 1006805383
Registry ID: 110013307689
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110013307689

M50 **AST** **A100345407**
NNW **9136 E FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.163 mi.
860 ft. **Site 2 of 4 in cluster M**

Relative:
Higher

Actual:
114 ft.

AST:
Certified Unified Program Agencies: Los Angeles County
Owner: PENSKE TOYOTA
Total Gallons: 3701
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported

(Continued) **A100345407**

Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

M51
NNW
1/8-1/4
0.163 mi.
860 ft.

Relative:
Higher

Actual:
114 ft.

PENSKE TOYOTA
9136 E. FIRESTONE BLVD.
DOWNEY, CA 90241

Site 3 of 4 in cluster M

RCRA-SQG **1000314682**
SWEEPS UST **CAD028100121**
HIST UST
CA FID UST
FINDS
EMI
ENF
LOS ANGELES CO. HMS
ECHO

RCRA-SQG:
Date form received by agency: 03/04/1999
Facility name: PENSKE TOYOTA
Site name: PENSKA TOYOTA
Facility address: 9136 E. FIRESTONE BLVD.
DOWNEY, CA 90241
EPA ID: CAD028100121
Contact: KENNETH RANKIN
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (626) 580-6000
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: P T AUTOMOTIVE INC
Owner/operator address: 3534 N PECK RD
EL MONTE, CA 91731
Owner/operator country: Not reported
Owner/operator telephone: (818) 580-6000
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

PENSKE TOYOTA (Continued) **1000314682**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/04/1995
Site name: PENSKE TOYOTA
Classification: Small Quantity Generator

Violation Status: No violations found

SWEEPS UST:
Status: Active
Comp Number: 11032
Number: 9
Board Of Equalization: 44-009118
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011032-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 1

HIST UST:
File Number: 000277B4
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000277B4.pdf
Region: STATE
Facility ID: 00000034117
Facility Type: Other
Other Type: AUTO DEALERSHIP
Contact Name: THOMAS MCSEVCENEY
Telephone: 2139231231
Owner Name: DOWNEY SPORTS CARS, INC.
Owner Address: 9136 E. FIRESTONE BLVD.
Owner City,St,Zip: DOWNEY, CA 90241
Total Tanks: 0003

PENSKE TOYOTA (Continued) **1000314682**

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000250
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000300
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00001940
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	19028911
Regulated By:	UTNKA
Regulated ID:	00034117
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8180000000
Mail To:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	DOWNEY
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

FINDS:

Registry ID: 110009529590

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART)

PENSKE TOYOTA (Continued) **1000314682**

provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

UORS (California - Used Oil Recycling System). California Integrated Waste Management Board (CIWMB) helps communities establish and promote convenient collection opportunities for used oil and used oil filters.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	59247
Air District Name:	SC
SIC Code:	5511
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:	3
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	92707

PENSKE TOYOTA (Continued) **1000314682**

Air District Name:	SC
SIC Code:	5511
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:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7

PENSKE TOYOTA (Continued) **1000314682**

Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3.63044
Reactive Organic Gases Tons/Yr:	2.21
Carbon Monoxide Emissions Tons/Yr:	0.0081
NOX - Oxides of Nitrogen Tons/Yr:	0.0301
SOX - Oxides of Sulphur Tons/Yr:	0.000192
Particulate Matter Tons/Yr:	0.05174
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.04

PENSKE TOYOTA (Continued) **1000314682**

ENF:

Region:	4
Facility Id:	250198
Agency Name:	Penske Toyota
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.934048
Place Longitude:	-118.121062
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	AGT
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	4CUPA000187
Reg Measure Id:	167023
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported

PENSKE TOYOTA (Continued) **1000314682**

WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	236434
Region:	4
Order / Resolution Number:	Notice of Noncompliance
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	01/26/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	05/01/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Notice of Noncompliance sent 1/26/01 for overdue fee. - 4CUPA000187
Description:	Notice of Noncompliance sent 1/26/01 for overdue fee.
Program:	AGT
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	011040-011032
Facility Type:	0
Facility Status:	Removed
Area:	1F
Permit Number:	00002448T
Permit Status:	Removed

Region:	LA
Permit Category:	T
Facility Id:	011040-011032
Facility Type:	0
Facility Status:	Removed
Area:	1F
Permit Number:	0000T2448
Permit Status:	Removed

Region:	LA
Permit Category:	Not reported
Facility Id:	011040-030574
Facility Type:	Not reported
Facility Status:	OPEN
Area:	1F
Permit Number:	Not reported

PENSKE TOYOTA (Continued) **1000314682**

Permit Status: Not reported

ECHO:

Envid:	1000314682
Registry ID:	110009529590
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110009529590

M52 **PENSKE TOYOTA** **AST S113000111**
NNW **9136 E FIRESTONE BLVD** **HAZNET N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.163 mi.
860 ft. **Site 4 of 4 in cluster M**

Relative:
Higher

Actual:
114 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	PT FIRESTONE, LLC
Total Gallons:	Not reported
CERSID:	10199104
Facility ID:	LACoFA0010495
Business Name:	Penske Toyota Scion of Downey
Phone:	(562) 904-5600
Fax:	Not reported
Mailing Address:	2010 E GARVEY AVE SOUTH
Mailing Address City:	WEST COVINA
Mailing Address State:	CA
Mailing Address Zip Code:	91791
Operator Name:	KATHY BROWN
Operator Phone:	(562) 904-5600
Owner Phone:	(562) 904-5600
Owner Mail Address:	2010 E GARVEY AVE SOUTH
Owner State:	CA
Owner Zip Code:	91791
Owner Country:	United States
Property Owner Name:	PT ENTERPRISES
Property Owner Phone:	(562) 904/5600
Property Owner Mailing Address:	9136 FIRESTONE BLVD
Property Owner City:	DOWNEY
Property Owner Stat :	CA
Property Owner Zip Code:	90241
Property Owner Country:	United States
EPAID:	CAD019100121

HAZNET:

envid:	S113000111
Year:	2014
GEPAID:	CAD028100121
Contact:	KATHY BROWN
Telephone:	5629045600
Mailing Name:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

PENSKE TOYOTA (Continued) **S113000111**

Tons:	0.25
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S113000111
Year:	2014
GEPAID:	CAD028100121
Contact:	KATHY BROWN
Telephone:	5629045600
Mailing Name:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.102
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles
envid:	S113000111
Year:	2013
GEPAID:	CAD028100121
Contact:	KATHY BROWN
Telephone:	5629045600
Mailing Name:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.85
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported
envid:	S113000111
Year:	2013
GEPAID:	CAD028100121
Contact:	KATHY BROWN
Telephone:	5629045600
Mailing Name:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAD097070993
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

PENSKE TOYOTA (Continued) **S113000111**

	(H010-H129) Or (H131-H135)
Tons:	0.2
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported
envid:	S113000111
Year:	2013
GEPAID:	CAD028100121
Contact:	KATHY BROWN
Telephone:	5629045600
Mailing Name:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAD008252405
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.8757
Cat Decode:	Not reported
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
87 additional CA_HAZNET: record(s) in the EDR Site Report.

N53 **KIRKHILL INC** **HIST UST** **S113157677**
SSE **12021 WOODRUFF AVENUE** **HAZNET** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.168 mi.
885 ft. **Site 2 of 3 in cluster N**

Relative:
Lower

Actual:
104 ft.

HIST UST:

File Number:	0002737C
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002737C.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

KIRKHILL INC (Continued) **S113157677**

Click here for Geo Tracker PDF:

HAZNET:

envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	ARD981057870
TSD County:	99
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.374
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles

envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	ARD981057870
TSD County:	99
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.26
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles

envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	AZR000501510
TSD County:	99
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.68805
Cat Decode:	Unspecified oil-containing waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

KIRKHILL INC (Continued) **S113157677**

Facility County:	Los Angeles
envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.4587
Cat Decode:	Unspecified oil-containing waste
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	7.05
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
21 additional CA_HAZNET: record(s) in the EDR Site Report.

N54 **KIRKHILL INC** **RCRA-SQG** **1000270393**
SSE **12021 WOODRUFF AVE** **LUST** **CAD008255648**
1/8-1/4 **DOWNEY, CA 90241** **FINDS**
0.168 mi. **HIST CORTESE**
885 ft. **Site 3 of 3 in cluster N** **ECHO**

Relative:
Lower

Actual:
104 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	KIRKHILL INC
Facility address:	12021 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD008255648
Mailing address:	WOODRUFF AVE

KIRKHILL INC (Continued) **1000270393**

DOWNEY, CA 90241
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
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: KIRKHILL INC
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: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST:
Region: STATE

KIRKHILL INC (Continued) **1000270393**

Global Id:	T0603704020
Latitude:	33.9256804
Longitude:	-118.1167513
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/06/1992
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-12987
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704020
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704020
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704020
Status:	Completed - Case Closed
Status Date:	08/06/1992

Global Id:	T0603704020
Status:	Open - Case Begin Date
Status Date:	03/12/1990

Global Id:	T0603704020
Status:	Open - Remediation
Status Date:	06/05/1990

Regulatory Activities:

Global Id:	T0603704020
Action Type:	Other
Date:	03/12/1990
Action:	Leak Stopped

Global Id:	T0603704020

KIRKHILL INC (Continued) **1000270393**

Action Type: Other
Date: 03/12/1990
Action: Leak Discovery

Global Id: T0603704020
Action Type: Other
Date: 03/15/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-12987
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704020
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: IMPERIAL HWY.
Enforcement Type: Not reported
Date Leak Discovered: 3/12/1990
Date Leak First Reported: 3/15/1990
Date Leak Record Entered: 4/8/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 3/12/1990
Date Case Last Changed on Database: 8/11/1992
Date the Case was Closed: 8/6/1992
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: BALLANGER, RAYMOND
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 534.71319376592650446050508082
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 6/5/1990
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

KIRKHILL INC (Continued) **1000270393**

Owner Contact: Not reported
Responsible Party: KIRKHILL INC.
RP Address: 12021 WOODRUFF AVE., DOWNEY, 90241
Program: LUST
Lat/Long: 33.9256804 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

FINDS:

Registry ID: 110002631000

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Registry ID: 110055849872

Environmental Interest/Information System
STATE MASTER

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-12987

ECHO:
Envid: 1000270393
Registry ID: 110002631000
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002631000

O55 **DARNELL CORP** **SWEEPS UST** **1000312748**
SE **12000 WOODRUFF AVE** **RCRA NonGen / NLR** **CAD981971831**
1/8-1/4 **DOWNEY, CA 90241** **FINDS**
0.176 mi. **LOS ANGELES CO. HMS**
930 ft. **Site 1 of 2 in cluster O** **ECHO**

Relative:
Lower

Actual:
105 ft.

SWEEPS UST:
Status: Active
Comp Number: 964
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89

DARNELL CORP (Continued) **1000312748**

Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

RCRA NonGen / NLR:

Date form received by agency:	05/15/1987
Facility name:	DARNELL CORP
Facility address:	12000 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD981971831
Mailing address:	WOODRUFF AVE DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	12000 WOODRUFF AVE DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 923-9373
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:	EVANS INDUSTRIES
Owner/operator address:	200 RENAISSANCE CTR STE 3150 DETROIT, MI 48243
Owner/operator country:	Not reported
Owner/operator telephone:	(313) 259-2166
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

DARNELL CORP (Continued) **1000312748**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002760432

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 000919-000964
Facility Type: Not reported
Facility Status: Removed
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

Region: LA
Permit Category: I
Facility Id: 000919-I00964
Facility Type: 00
Facility Status: Closed
Area: 1F
Permit Number: 000000287
Permit Status: Closed

ECHO:
Envid: 1000312748
Registry ID: 110002760432
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002760432

O56 **FUJI PHOTO FILM U S A INC** **RCRA NonGen / NLR** **1006805597**
SE **12010 WOODRUFF AVE STE A** **FINDS** **CAR000129742**
1/8-1/4 **DOWNEY, CA 90241** **HAZNET**
0.176 mi. **ECHO**
930 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
105 ft.

RCRA NonGen / NLR:

Date form received by agency:	11/04/2002
Facility name:	FUJI PHOTO FILM U S A INC
Facility address:	12010 WOODRUFF AVE STE A DOWNEY, CA 90241
EPA ID:	CAR000129742
Mailing address:	200 SUMMIT LAKE DRIVE VALHALLA, NY 10595 1356
Contact:	JOANNE M KIRWIN
Contact address:	200 SUMMIT LAKE DRIVE VALHALLA, NY 10595 1356
Contact country:	US
Contact telephone:	914-789-8100
Telephone ext.:	8497
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:	B E F
Owner/operator address:	NOT REQUIRED NOT REQUIRED, CA 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(999) 999-9999
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:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110013357526

FUJI PHOTO FILM U S A INC (Continued) **1006805597**

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1006805597
Year:	2003
GEPAID:	CAR000129742
Contact:	JOSEPHINE CARPENITO
Telephone:	9147898359
Mailing Name:	Not reported
Mailing Address:	200 SUMMIT LAKE DR
Mailing City,St,Zip:	VALHALLA, NY 105950000
Gen County:	Not reported
TSD EPA ID:	CAD981402522
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	0.7
Cat Decode:	Photochemicals/photoprocessing waste
Method Decode:	Recycler
Facility County:	Los Angeles

envid:	1006805597
Year:	2003
GEPAID:	CAR000129742
Contact:	JOSEPHINE CARPENITO
Telephone:	9147898359
Mailing Name:	Not reported
Mailing Address:	200 SUMMIT LAKE DR
Mailing City,St,Zip:	VALHALLA, NY 105950000
Gen County:	Not reported
TSD EPA ID:	CAD981402522
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Recycler
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Recycler
Facility County:	Los Angeles

ECHO:

Envid:	1006805597
Registry ID:	110013357526
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110013357526

57
ESE
1/8-1/4
0.184 mi.
969 ft.

REGENT MFG CO., INC.
11905 REGENTVIEW
DOWNEY, CA 90241

HIST UST **U001562928**
EMI **N/A**
WDS

Relative:
Lower

Actual:
107 ft.

HIST UST:

File Number:	00027F16
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027F16.pdf
Region:	STATE
Facility ID:	00000006431
Facility Type:	Other
Other Type:	Not reported
Contact Name:	J.A. JARVIS
Telephone:	2138621174
Owner Name:	REGENT JACK MFG CO INC
Owner Address:	11905 REGENT VIEW AVE
Owner City,St,Zip:	DOWNEY, CA 90241
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	10

Click here for Geo Tracker PDF:

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	15241
Air District Name:	SC
SIC Code:	3441
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 and Smllr Tons/Yr:	0
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	15241
Air District Name:	SC
SIC Code:	3441
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11

REGENT MFG CO., INC. (Continued) **U001562928**

Reactive Organic Gases Tons/Yr:	9
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	15241
Air District Name:	SC
SIC Code:	3441
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	15241
Air District Name:	SC
SIC Code:	3441
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

WDS:

Facility ID:	4 19I001267
Facility Type:	Not reported
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:	Not reported
Facility Contact:	Not reported
Agency Name:	AVIATION METHODS INC.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported

REGENT MFG CO., INC. (Continued) **U001562928**

SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
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 thosewho 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.

P58 **CAR WASH USA** **SWEEPS UST** **S106924012**
East **9514 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.210 mi.
1107 ft. **Site 1 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

SWEEPS UST:

Status:	Active
Comp Number:	14512
Number:	9
Board Of Equalization:	44-010432
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014512-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	6

Status:	Active
Comp Number:	14512
Number:	9
Board Of Equalization:	44-010432
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported

CAR WASH USA (Continued) **S106924012**

SWRCB Tank Id: 19-000-014512-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014512-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014512-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014512-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W

CAR WASH USA (Continued) **S106924012**

Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014512-000006
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Q59 **CLASSIC GRAPHIX** **RCRA-SQG** **1001111740**
South **9459 WASHBURN RD** **FINDS** **CAR000012781**
1/8-1/4 **DOWNEY, CA 90242** **HAZNET**
0.214 mi. **LOS ANGELES CO. HMS**
1130 ft. **Site 1 of 3 in cluster Q** **ECHO**

Relative:
Lower

Actual:
102 ft.

RCRA-SQG:
Date form received by agency: 06/03/1996
Facility name: CLASSIC GRAPHIX
Facility address: 9459 WASHBURN RD
DOWNEY, CA 90242
EPA ID: CAR000012781
Mailing address: WASHBURN RD
DOWNEY, CA 90242
Contact: JUDY BATHURST
Contact address: 9459 WASHBURN RD
DOWNEY, CA 90242
Contact country: US
Contact telephone: (310) 869-1968
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: JUDY BATHURST
Owner/operator address: 9459 WASHBURN RD
DOWNEY, CA 90242
Owner/operator country: Not reported
Owner/operator telephone: (310) 869-1968
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported

CLASSIC GRAPHIX (Continued) **1001111740**

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002912340

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1001111740
Year:	2006
GEPAID:	CAR000012781
Contact:	SCOTT BATHURST
Telephone:	5628691968
Mailing Name:	Not reported
Mailing Address:	9459 WASHBURN RD
Mailing City,St,Zip:	DOWNEY, CA 902422912
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	0.22
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Recycler
Facility County:	Los Angeles

envid:	1001111740
Year:	2006
GEPAID:	CAR000012781
Contact:	SCOTT BATHURST

CLASSIC GRAPHIX (Continued) **1001111740**

Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Tons: 0.22
Cat Decode: Unspecified organic liquid mixture
Method Decode: Transfer Station
Facility County: Los Angeles

envid: 1001111740
Year: 2006
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAD981402522
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: 0.06
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: 1001111740
Year: 2004
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAD981402522
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: 0.06
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: 1001111740
Year: 2004
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD

CLASSIC GRAPHIX (Continued) **1001111740**

Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Tons: 0.22
Cat Decode: Unspecified organic liquid mixture
Method Decode: Recycler
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.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 026102-035592
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

ECHO:
Envid: 1001111740
Registry ID: 110002912340
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002912340

P60 **LOPEZ TRANSMISSION** **RCRA-SQG 1001959851**
East **9524 E FIRESTONE BLVD STE A** **FINDS CAR000065375**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.215 mi.
1135 ft. **Site 2 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

RCRA-SQG:
Date form received by agency: 01/31/2000
Facility name: LOPEZ TRANSMISSION
Facility address: 9524 E FIRESTONE BLVD STE A
DOWNEY, CA 90241
EPA ID: CAR000065375
Contact: RAMIREZ SILVIO LOPEZ
Contact address: 9524 E FIRESTONE BLVD STE A
DOWNEY, CA 90241
Contact country: US
Contact telephone: (562) 622-3363
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:

LOPEZ TRANSMISSION (Continued) **1001959851**

Owner/operator name: LOPEZ TRANSMISSION
Owner/operator address: 9524 E FIRESTONE BLVD STE A
DOWNEY, CA 90241
Owner/operator country: Not reported
Owner/operator telephone: (562) 622-3363
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: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110002932444

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1001959851
Registry ID: 110002932444
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002932444

Q61 **RITE ENGINEERING AND MFG CORP** **RCRA NonGen / NLR** **1000818442**
South **9441 WASHBURN RD** **FINDS** **CAD983643149**
1/8-1/4 **DOWNEY, CA 90242** **EMI**
0.226 mi. **HAZNET**
1193 ft. **Site 2 of 3 in cluster Q** **ECHO**

Relative:
Lower

Actual:
102 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/27/2009
Facility name:	RITE ENGINEERING AND MFG CORP
Facility address:	9441 WASHBURN RD DOWNEY, CA 90242
EPA ID:	CAD983643149
Contact:	JACK COE
Contact address:	9441 WASHBURN RD DOWNEY, CA 90242
Contact country:	US
Contact telephone:	562-862-2135
Contact email:	JACKC@RITEBOILER.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	JOHN E KASUNICH
Owner/operator address:	2112 CHELSEA RD PALOS VERDES, CA 90274
Owner/operator country:	Not reported
Owner/operator telephone:	(310) 375-9210
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:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	07/14/1992
Site name:	RITE ENGINEERING AND MFG CORP
Classification:	Small Quantity Generator

Violation Status: No violations found

FINDS:

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

Registry ID: 110057126104

Environmental Interest/Information System
STATE MASTER

Registry ID: 110002420915

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
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
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
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 and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3443
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:	.2423719049523991601
Reactive Organic Gases Tons/Yr:	.23835739175
Carbon Monoxide Emissions Tons/Yr:	.01

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

NOX - Oxides of Nitrogen Tons/Yr: .01
SOX - Oxides of Sulphur Tons/Yr: .0000880791
Particulate Matter Tons/Yr: .0011156686
Part. Matter 10 Micrometers and Smllr Tons/Yr:.0011156686

HAZNET:

envid: 1000818442
Year: 2010
GEPAID: CAD983643149
Contact: MARGARET C LIGHT - VP
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 5832 GARFIELD AVE
Mailing City,St,Zip: COMMERCE, CA 900403605
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.2085
Cat Decode: Unspecified oil-containing waste
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: 1000818442
Year: 2009
GEPAID: CAD983643149
Contact: MARGARET C LIGHT - VP
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 9441 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902420000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.19
Cat Decode: Waste oil and mixed oil
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: 1000818442
Year: 2007
GEPAID: CAD983643149
Contact: MARGARET C LIGHT - VP
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 9441 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902420000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

Waste Category: Unspecified oil-containing waste
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.41
Cat Decode: Unspecified oil-containing waste
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: 1000818442
Year: 1998
GEPAID: CAD983643149
Contact: COE FAMILY TRUST
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 9441 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902420000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: .2293
Cat Decode: Waste oil and mixed oil
Method Decode: Recycler
Facility County: Los Angeles

envid: 1000818442
Year: 1998
GEPAID: CAD983643149
Contact: COE FAMILY TRUST
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 9441 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902420000
Gen County: Not reported
TSD EPA ID: CAD044429835
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Other
Tons: .1000
Cat Decode: Other organic solids
Method Decode: Disposal, Other
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

ECHO:
Envid: 1000818442
Registry ID: 110002420915
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002420915

R62 **DOWNEY** **SWEEPS UST** **U001562953**
SSW **9407 WASHBURN RD** **HIST UST** **N/A**
1/8-1/4 **DOWNEY, CA 90242**
0.226 mi.
1193 ft. **Site 1 of 3 in cluster R**

Relative:
Lower

Actual:
102 ft.

SWEEPS UST:

Status:	Active
Comp Number:	12689
Number:	9
Board Of Equalization:	44-007401
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012689-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

HIST UST:

File Number:	000286C7
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000286C7.pdf
Region:	STATE
Facility ID:	00000007497
Facility Type:	Other
Other Type:	PUBLIC UTILITY
Contact Name:	G. J. STOVER
Telephone:	2138037444
Owner Name:	SOUTHERN CALIF. GAS COMPANY
Owner Address:	BOX 3249 TERMINAL ANNEX
Owner City,St,Zip:	LOS ANGELES, CA 90051
Total Tanks:	0003
Tank Num:	001
Container Num:	DSEU100
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	1
Container Construction Thickness:	.25
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	DSEU101
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	0
Container Construction Thickness:	6
Leak Detection:	None
Tank Num:	003
Container Num:	DSEU102
Year Installed:	Not reported

DOWNEY (Continued) **U001562953**

Tank Capacity: 00000250
Tank Used for: WASTE
Type of Fuel: 5
Container Construction Thickness: 12.
Leak Detection: None

Click here for Geo Tracker PDF:

R63 **SOUTHERN CALIFORNIA GAS CO** **UST** **U003777038**
SSW **9407 WASHBURN RD** **N/A**
1/8-1/4 **DOWNEY, CA 90242**
0.226 mi.
1193 ft. **Site 2 of 3 in cluster R**

Relative:
Lower

Actual:
102 ft.

UST:
Facility ID: 12689
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.926515
Longitude: -118.119183

R64 **SO CALIF GAS CO/DOWNEY BASE** **RCRA-SQG** **1000167595**
SSW **9407 WASHBURN RD** **FINDS** **CAD981422876**
1/8-1/4 **DOWNEY, CA 90242** **ECHO**
0.226 mi.
1193 ft. **Site 3 of 3 in cluster R**

Relative:
Lower

Actual:
102 ft.

RCRA-SQG:
Date form received by agency: 06/23/1986
Facility name: SO CALIF GAS CO/DOWNEY BASE
Facility address: 9407 WASHBURN RD
DOWNEY, CA 90242
EPA ID: CAD981422876
Mailing address: P O BOX 3249 TERMINAL ANNEX
LOS ANGELES, CA 90051
Contact: ENVIRONMENTAL MANAGER
Contact address: 9407 WASHBURN RD
DOWNEY, CA 90242
Contact country: US
Contact telephone: (213) 689-3075
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: SO CALIFORNIA
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

SO CALIF GAS CO/DOWNEY BASE (Continued) **1000167595**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002700747

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1000167595
Registry ID: 110002700747
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002700747

P65 **AST** **A100345432**
East **9534 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.228 mi.
1206 ft. **Site 3 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

AST:

Certified Unified Program Agencies:	Los Angeles County
Owner:	DOWNEY HAND CAR WASH & QUICK LUBE
Total Gallons:	3701
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

P66 **CAR WASH USA- MINI MARKET** **UST** **U003777429**
East **9534 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.228 mi.
1206 ft. **Site 4 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

UST:

Facility ID:	21743
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	33.9309268
Longitude:	-118.1120912

P67 **60 MINUTE TUNE DOWNEY** **RCRA-SQG** **1000300344**
East **9536B FIRESTONE BLVD** **CAD982507428**
1/8-1/4 **DOWNEY, CA 90241**
0.233 mi.
1230 ft. **Site 5 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	60 MINUTE TUNE DOWNEY
Facility address:	9536B FIRESTONE BLVD DOWNEY, CA 90241

60 MINUTE TUNE DOWNEY (Continued) **1000300344**

EPA ID:	CAD982507428
Mailing address:	FIRESTONE BLVD DOWNEY, CA 90241
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	JOE LEVOFF
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:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

P68 **60 MINUTE TUNE DOWNEY** **RCRA-SQG** **1000112565**
East **9536B FIRESTONE BLVD** **FINDS** **CAD982475741**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.233 mi.
1230 ft. **Site 6 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	RAY ENGINEERING
Facility address:	9536 FIRESTONE DOWNEY, CA 90241
EPA ID:	CAD982475741
Mailing address:	9536 FIRESTONE BLVD DOWNEY, CA 90241
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	RAY ZELLER
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:	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

60 MINUTE TUNE DOWNEY (Continued) **1000112565**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/28/1988
Site name: RAY ENGINEERING
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002836502

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110002822722

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000112565
Registry ID: 110002836502
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002836502

Envid: 1000112565
Registry ID: 110002822722
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002822722

P69 **RAY ENGINEERING** **SWEEPS UST** **U001562965**
East **9536 FIRESTONE BL** **HIST UST** **N/A**
1/8-1/4 **DOWNEY, CA 90242**
0.233 mi.
1230 ft. **Site 7 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

SWEEPS UST:
Status: Active
Comp Number: 14115
Number: 9

RAY ENGINEERING (Continued) **U001562965**

Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

HIST UST:

File Number:	0002896D
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002896D.pdf
Region:	STATE
Facility ID:	00000052888
Facility Type:	Other
Other Type:	AUTO PARTS STORE
Contact Name:	RAY ZELLER
Telephone:	2138619705
Owner Name:	ZELLER CORP.
Owner Address:	9536 FIRESTONE BL.
Owner City,St,Zip:	DOWNEY, CA 90242
Total Tanks:	0001
Tank Num:	001
Container Num:	001
Year Installed:	1979
Tank Capacity:	00004500
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Visual

Click here for Geo Tracker PDF:

P70 **DOWNEY CAR CARE CENTER & CASTROL PREMIUM LUBE EXPRESS** **AST** **A100419519**
East **9536 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.233 mi.
1230 ft. **Site 8 of 8 in cluster P**

Relative:
Higher

Actual:
111 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	Vahid Ladjevardi
Total Gallons:	Not reported
CERSID:	10617472
Facility ID:	Not reported
Business Name:	Downey Car Care Center & Castrol Premium Lube Express
Phone:	(562) 622-4688
Fax:	Not reported
Mailing Address:	9534 Firestone Blvd
Mailing Address City:	Downey
Mailing Address State:	CA

DOWNEY CAR CARE CENTER & CASTROL PREMIUM LUBE EXPRESS (Continued) **A100419519**

Mailing Address Zip Code:	90241
Operator Name:	Vahid Ladjevardi
Operator Phone:	(562) 622-3333
Owner Phone:	(562) 622-3333
Owner Mail Address:	9534 Firestone Blvd
Owner State:	CA
Owner Zip Code:	90241
Owner Country:	United States
Property Owner Name:	Ladjevardi Family Partnership
Property Owner Phone:	(562) 622-3333
Property Owner Mailing Address:	9534 Firestone Blvd
Property Owner City:	Downey
Property Owner Stat :	CA
Property Owner Zip Code:	90241
Property Owner Country:	United States
EPAID:	CAL000263175

Q71 **STUD WELDING PRODUCTS INC** **RCRA-SQG** **1000594670**
South **9455 WASHBURN ROAD** **FINDS** **CAD983585290**
1/8-1/4 **DOWNEY, CA 90242** **HAZNET**
0.233 mi. **LOS ANGELES CO. HMS**
1230 ft. **Site 3 of 3 in cluster Q** **ECHO**

Relative:
Lower

Actual:
102 ft.

RCRA-SQG:

Date form received by agency:	05/18/1991
Facility name:	STUD WELDING PRODUCTS INC
Facility address:	9455 WASHBURN ROAD DOWNEY, CA 90242
EPA ID:	CAD983585290
Contact:	PHIL BUTCHER
Contact address:	9455 WASHBURN ROAD DOWNEY, CA 90242
Contact country:	US
Contact telephone:	(213) 327-3668
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:	JOSEPH B QUALL
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

STUD WELDING PRODUCTS INC (Continued) **1000594670**

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002846378

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZNET:
envid: 1000594670
Year: 2014
GEPAID: CAD983585290
Contact: LINDA MYERS, BOOKKEEPER
Telephone: 4256569787
Mailing Name: Not reported
Mailing Address: PO BOX 68887
Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles
TSD EPA ID: AZR000501510

STUD WELDING PRODUCTS INC (Continued) **1000594670**

TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.25
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	1000594670
Year:	2014
GEPAID:	CAD983585290
Contact:	LINDA MYERS, BOOKKEEPER
Telephone:	4256569787
Mailing Name:	Not reported
Mailing Address:	PO BOX 68887
Mailing City,St,Zip:	SEATTLE, WA 981680887
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.95
Cat Decode:	Waste oil and mixed oil
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles
envid:	1000594670
Year:	2014
GEPAID:	CAD983585290
Contact:	LINDA MYERS, BOOKKEEPER
Telephone:	4256569787
Mailing Name:	Not reported
Mailing Address:	PO BOX 68887
Mailing City,St,Zip:	SEATTLE, WA 981680887
Gen County:	Los Angeles
TSD EPA ID:	CAT000613976
TSD County:	Orange
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.134
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	1000594670
Year:	2013
GEPAID:	CAD983585290
Contact:	LINDA MYERS, BOOKKEEPER
Telephone:	4256569787
Mailing Name:	Not reported
Mailing Address:	PO BOX 68887

STUD WELDING PRODUCTS INC (Continued) **1000594670**

Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Not reported

envid: 1000594670
Year: 2013
GEPAID: CAD983585290
Contact: LINDA MYERS, BOOKKEEPER
Telephone: 4256569787
Mailing Name: Not reported
Mailing Address: PO BOX 68887
Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles
TSD EPA ID: CAT000613976
TSD County: Orange
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.155
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Not reported

Click this hyperlink while viewing on your computer to access
69 additional CA_HAZNET: record(s) in the EDR Site Report.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 026101-035590
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

ECHO:
Envid: 1000594670
Registry ID: 110002846378
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002846378

S72 **WALGREEN NO 10112** **RCRA-LQG** **1017785836**
NNW **9018 FIRESTONE BLVD** **FINDS** **CAR000253286**
1/8-1/4 **DOWNEY, CA 90241**
0.248 mi.
1308 ft. **Site 1 of 2 in cluster S**

Relative:
Higher

Actual:
114 ft.

RCRA-LQG:

Date form received by agency:	04/20/2015
Facility name:	WALGREEN NO 10112
Facility address:	9018 FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAR000253286
Contact:	ANDREW MARKS
Contact address:	104 WILMOT RD MS 1434 DEERFIELD, IL 60015
Contact country:	US
Contact telephone:	847-315-2602
Contact email:	Not reported
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	PNS STORES INC
Owner/operator address:	300 PHILIPI RD COLUMBUS, 43228
Owner/operator country:	US
Owner/operator telephone:	614-278-6800
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/11/2009
Owner/Op end date:	Not reported
Owner/operator name:	WALGREEN CO
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:	05/11/2009
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

WALGREEN NO 10112 (Continued) **1017785836**

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: 122

. Waste code: 131
. Waste name: 131

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 232
. Waste name: 232

. Waste code: 311
. Waste name: 311

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

WALGREEN NO 10112 (Continued) **1017785836**

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

Violation Status: No violations found

S73 **WALGREENS #10112** **RCRA-CESQG** **1016954561**
NNW **9018 FIRESTONE BLVD** **CAL000345647**
1/8-1/4 **DOWNEY, CA 90241**
0.248 mi.
1308 ft. **Site 2 of 2 in cluster S**

Relative:
Higher

Actual:
114 ft.

RCRA-CESQG:
Date form received by agency: 06/09/2014
Facility name: WALGREENS #10112
Facility address: 9018 FIRESTONE BLVD
DOWNEY, CA 90241
EPA ID: CAL000345647
Mailing address: GREY HAWK CT, STE 200
CARLSBAD, CA 92010
Contact: KARINA E ROMERO
Contact address: N LAKE AVE
PASADENA, CA 91101

WALGREENS #10112 (Continued) **1016954561**

Contact country: Not reported
Contact telephone: (760) 602-8887
Contact email: KROMERO@3ECOMPANY.COM
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 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; 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 at any time: 1 kg or less of acutely hazardous waste; or 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

Owner/Operator Summary:

Owner/operator name: WALGREEN CO
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/28/2009
Owner/Op end date: Not reported

Owner/operator name: PNS STORES INC
Owner/operator address: PHILLIPI RD
COLUMBUS, OH 43228
Owner/operator country: Not reported
Owner/operator telephone: (847) 914-2264
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/28/2009
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

WALGREENS #10112 (Continued) **1016954561**

Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U165
. Waste name: NAPHTHALENE

Violation Status: No violations found

74
SSW
1/4-1/2
0.271 mi.
1429 ft.

GENERAL PAVING CO/JOMIT RENTAL **LUST** **S104159681**
9316 WASHBURN RD **HIST CORTESE** **N/A**
DOWNEY, CA 90241

Relative:
Lower

Actual:
101 ft.

LUST:
Region: STATE
Global Id: T0603704974
Latitude: 33.92392
Longitude: -118.122802
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/09/1992
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-10910
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline

GENERAL PAVING CO/JOMIT RENTAL (Continued) **S104159681**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704974
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704974
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704974
Status:	Completed - Case Closed
Status Date:	09/09/1992

Global Id:	T0603704974
Status:	Open - Case Begin Date
Status Date:	06/20/1991

Global Id:	T0603704974
Status:	Open - Remediation
Status Date:	10/31/1991

Global Id:	T0603704974
Status:	Open - Remediation
Status Date:	03/02/1992

Global Id:	T0603704974
Status:	Open - Site Assessment
Status Date:	06/20/1991

Global Id:	T0603704974
Status:	Open - Site Assessment
Status Date:	07/23/1991

Regulatory Activities:

Global Id:	T0603704974
Action Type:	Other
Date:	07/03/1991
Action:	Leak Stopped

Global Id:	T0603704974
Action Type:	Other
Date:	07/03/1991

GENERAL PAVING CO/JOMIT RENTAL (Continued) **S104159681**

Action: Leak Discovery

Global Id: T0603704974
Action Type: Other
Date: 11/18/1991
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-10910
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704974
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: DUNROBIN
Enforcement Type: Informal Enforcement Actions,including Notices of Violations and Staff Enforcement Letters
Date Leak Discovered: 7/3/1991
Date Leak First Reported: 11/18/1991
Date Leak Record Entered: 3/20/1992
Date Confirmation Began: Not reported
Date Leak Stopped: 7/3/1991
Date Case Last Changed on Database: 9/9/1992
Date the Case was Closed: 9/9/1992
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: RULLO, LEN
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2183.381133376480185921247 2736
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 6/20/1991
Preliminary Site Assessment Began: 7/23/1991
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 10/31/1991
Remedial Action Underway: 3/2/1992
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: 1/1/1965
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: JOMIT EQUIPMENT RENTALS

GENERAL PAVING CO/JOMIT RENTAL (Continued) **S104159681**

RP Address:	12125 WOODRUFF AVE., DOWNEY 90241
Program:	LUST
Lat/Long:	33.9241735 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-10910

75
SE
1/4-1/2
0.289 mi.
1524 ft.

VIMAR INC
9650 WASHBURN RD
DOWNEY, CA 90241

LUST **S100228291**
HIST CORTESE **N/A**
LOS ANGELES CO. HMS

Relative:
Lower

Actual:
104 ft.

LUST:

Region:	STATE
Global Id:	T0603704145
Latitude:	33.9242274
Longitude:	-118.1154063
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/14/1993
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-14214
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704145
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704145
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200

VIMAR INC (Continued) **S100228291**

City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603704145
Status: Completed - Case Closed
Status Date: 01/14/1993

Global Id: T0603704145
Status: Open - Case Begin Date
Status Date: 03/09/1990

Global Id: T0603704145
Status: Open - Site Assessment
Status Date: 03/09/1990

Regulatory Activities:
Global Id: T0603704145
Action Type: Other
Date: 03/09/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-14214
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704145
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 3/9/1990
Date Leak Record Entered: 3/5/1990
Date Confirmation Began: 3/9/1990
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 5/25/1993
Date the Case was Closed: 1/14/1993
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): 178.184232210543404560598 1502

VIMAR INC (Continued) **S100228291**

Source of Cleanup Funding: F
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: VIMAR, INC.
RP Address: 9650 WASHBURN ROAD, DOWNEY, 90241
Program: LUST
Lat/Long: 33.9242274 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-14214

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 026104-035593
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

T76 **CRESCENT TRUCK LINES** **LUST** **S104537978**
ESE **11937 REGENTVIEW AVE** **LOS ANGELES CO. HMS** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.289 mi.
1526 ft. **Site 1 of 3 in cluster T**

Relative:
Lower

Actual:
106 ft.

LUST:
Region: STATE
Global Id: T0603714767
Latitude: 33.926481
Longitude: -118.113488
Case Type: LUST Cleanup Site
Status: Completed - Case Closed

CRESCENT TRUCK LINES (Continued) **S104537978**

Status Date:	05/09/2005
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	PGT
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	012713-040293
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603714767
Contact Type:	Local Agency Caseworker
Contact Name:	PHILLIP GHARIBIANS-TABRIZI
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	pgharibians@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603714767
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603714767
Status:	Completed - Case Closed
Status Date:	05/09/2005

Global Id:	T0603714767
Status:	Open - Case Begin Date
Status Date:	08/27/2003

Global Id:	T0603714767
Status:	Open - Site Assessment
Status Date:	05/09/2005

Regulatory Activities:

Global Id:	T0603714767
Action Type:	REMEDIATION
Date:	09/22/2003
Action:	Excavation

Global Id:	T0603714767
Action Type:	ENFORCEMENT
Date:	04/17/2012
Action:	Closure/No Further Action Letter

Global Id:	T0603714767

CRESCENT TRUCK LINES (Continued) **S104537978**

Action Type: Other
Date: 08/27/2003
Action: Leak Discovery

Global Id: T0603714767
Action Type: Other
Date: 05/09/2005
Action: Leak Reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 012713-012904
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 00004676T
Permit Status: Closed

Region: LA
Permit Category: T
Facility Id: 012713-040293
Facility Type: 0
Facility Status: Permit
Area: 1F
Permit Number: 000387132
Permit Status: Permit

Region: LA
Permit Category: Not reported
Facility Id: 012713-040401
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

77
WNW
1/4-1/2
0.291 mi.
1538 ft.

MOHAWK SERVICE STTION 04074 **LUST** **S102438517**
11534 LAKEWOOD **HIST UST** **N/A**
DOWNEY, CA 90241 **HIST CORTESE**

Relative:
Higher

Actual:
111 ft.

LUST:
Region: STATE
Global Id: T0603701264
Latitude: 33.931795
Longitude: -118.126333
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 03/30/1989
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES COUNTY
RB Case Number: 902410043
LOC Case Number: Not reported

MOHAWK SERVICE STTION 04074 (Continued) **S102438517**

File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603701264
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603701264
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603701264
Status: Completed - Case Closed
Status Date: 03/30/1989

Global Id: T0603701264
Status: Open - Case Begin Date
Status Date: 02/11/1985

Global Id: T0603701264
Status: Open - Site Assessment
Status Date: 03/23/1988

Regulatory Activities:
Global Id: T0603701264
Action Type: Other
Date: 02/11/1985
Action: Leak Stopped

Global Id: T0603701264
Action Type: Other
Date: 02/11/1985
Action: Leak Discovery

Global Id: T0603701264
Action Type: Other
Date: 02/11/1985
Action: Leak Reported

MOHAWK SERVICE STTION 04074 (Continued) **S102438517**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	902410043	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		VE
Global ID:	T0603701264	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	FIRESTONE	
Enforcement Type:	Not reported	
Date Leak Discovered:	2/11/1985	
Date Leak First Reported:		2/11/1985
Date Leak Record Entered:	8/12/1987	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	2/11/1985	
Date Case Last Changed on Database:		3/30/1989
Date the Case was Closed:		3/30/1989
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	Corrosion	
Leak Source:	Tank	
Operator:	WARK, R.J.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2218.29645388325361439778542 63
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		3/23/1988
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	TEXACO USA	
RP Address:	PO BOX 3756, LOS ANGELES, CA 90051	
Program:	LUST	
Lat/Long:	33.9323414 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	

MOHAWK SERVICE STTION 04074 (Continued) **S102438517**

Assigned Name: Not reported
Summary: INITIALLY ASSIGNED TO ANS. TEXACO WANTS CLOSURE APPROVAL.

HIST UST:
File Number: 00026B7A
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026B7A.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 902410043

T78 **LEXINGTON CHEMICALS CORP** **LUST** **S104159685**
ESE **11916 REGENTVIEW AVE** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.303 mi.
1602 ft. **Site 2 of 3 in cluster T**

Relative:
Lower

Actual:
107 ft.

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-22573
Status: Case Closed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603705366
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: WASHBURN
Enforcement Type: Not reported

LEXINGTON CHEMICALS CORP (Continued) **S104159685**

Date Leak Discovered:	Not reported	
Date Leak First Reported:		1/24/1996
Date Leak Record Entered:	5/1/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		1/24/1996
Date the Case was Closed:		1/24/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	DONYES, FRANK	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1317.359063337522780258540624
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	LEXINGTON CHEMICALS CORP	
RP Address:	11916 REGENTVIEW AVE, DOWNEY CA 90241-5586	
Program:	LUST	
Lat/Long:	33.9271163 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

T79 **LEXINGTON CHEMICALS CORP** **LUST** **S102062220**
ESE **11916 REGENTVIEW AVE** **HIST CORTESE** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.303 mi.
1602 ft. **Site 3 of 3 in cluster T**

Relative:
Lower

Actual:
107 ft.

LUST:

Region:	STATE
Global Id:	T0603705366
Latitude:	33.9271163
Longitude:	-118.1121282
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/24/1996
Lead Agency:	LOS ANGELES COUNTY

LEXINGTON CHEMICALS CORP (Continued) **S102062220**

Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-22573
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603705366
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603705366
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603705366
Status:	Completed - Case Closed
Status Date:	01/24/1996

Global Id:	T0603705366
Status:	Open - Case Begin Date
Status Date:	01/24/1996

Regulatory Activities:

Global Id:	T0603705366
Action Type:	Other
Date:	01/24/1996
Action:	Leak Reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-22573

80
ENE
1/4-1/2
0.309 mi.
1632 ft.

DOWNEY DUMP
11014 PANGHORN
DOWNEY, CA

WMUDS/SWAT **S104156350**
N/A

Relative:
Higher

Actual:
113 ft.

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Not reported
Agency Name:	Not reported
Agency Department:	Not reported
Agency Address:	Not reported
Agency City,St,Zip:	Not reported
Agency Contact:	Not reported
Agency Telephone:	Not reported
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	CA
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	4
Facility Type:	Not reported
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	LT
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	4 190278NUR
Solid Waste Information ID:	Not reported

81
East
1/4-1/2
0.310 mi.
1636 ft.

US RENTALS INC
9606 FIRESTONE BLVD
DOWNEY, CA 90241

LUST
SWEEPS UST
HIST CORTESE
LOS ANGELES CO. HMS

S100876626
N/A

Relative:
Higher

Actual:
111 ft.

LUST:

Region:	STATE
Global Id:	T0603705064
Latitude:	33.928818
Longitude:	-118.111832
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/29/2001
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MB
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-11696
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603705064
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603705064
Contact Type:	Regional Board Caseworker
Contact Name:	MAGDY BAIADY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mbaiady@waterboards.ca.gov
Phone Number:	2135766699

Status History:

Global Id:	T0603705064
Status:	Completed - Case Closed
Status Date:	01/29/2001

Global Id:	T0603705064
Status:	Open - Case Begin Date
Status Date:	10/01/1996

Global Id:	T0603705064
Status:	Open - Site Assessment
Status Date:	01/30/1997

Global Id:	T0603705064

US RENTALS INC (Continued) **S100876626**

Status: Open - Site Assessment
Status Date: 06/03/1997

Global Id: T0603705064
Status: Open - Site Assessment
Status Date: 12/11/1997

Regulatory Activities:
Global Id: T0603705064
Action Type: Other
Date: 10/01/1996
Action: Leak Stopped

Global Id: T0603705064
Action Type: Other
Date: 01/07/1997
Action: Leak Discovery

Global Id: T0603705064
Action Type: Other
Date: 01/30/1997
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-11696
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: OT
Global ID: T0603705064
W Global ID: Not reported
Staff: MB
Local Agency: 19000
Cross Street: STEWART & GARY RD
Enforcement Type: Not reported
Date Leak Discovered: 1/7/1997
Date Leak First Reported: 1/30/1997
Date Leak Record Entered: 3/31/1997
Date Confirmation Began: 1/30/1997
Date Leak Stopped: 10/1/1996
Date Case Last Changed on Database: 1/12/2000
Date the Case was Closed: 1/29/2001
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: NILES, TORRE
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1661.171428973975974059028996 6

US RENTALS INC (Continued) **S100876626**

Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	6/3/1997
Pollution Characterization Began:	12/11/1997
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:	6/3/1999
Hist Max MTBE Conc in Groundwater:	45.2
Hist Max MTBE Conc in Soil:	315
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	U.S. RENTALS INC.
RP Address:	9606 E. FIRESTONE BLVD., DOWNEY CA 90241
Program:	LUST
Lat/Long:	33.9292953 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	9/10/99 3RD QTR GW MON RPT 1999; 1/12/00 4TH QTR GW MON RPT 1999

SWEEPS UST:

Status:	Active
Comp Number:	11696
Number:	9
Board Of Equalization:	44-009437
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011696-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	3

Status:	Active
Comp Number:	11696
Number:	9
Board Of Equalization:	44-009437
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011696-000002
Tank Status:	A
Capacity:	Not reported

US RENTALS INC (Continued) **S100876626**

Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11696
Number: 9
Board Of Equalization: 44-009437
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011696-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-11696

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 011643-011696
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 00003266T
Permit Status: Removed

---

82 **DOWNEY AREA RECYCLING & TRANSFER STATION** **SWF/LF** **S104159682**
SE **9770 WASHBURN ROAD** **WMUDS/SWAT** **N/A**
1/4-1/2 **DOWNEY, CA 90241** **CHMIRS**
0.350 mi. **NPDES**
1846 ft.

Relative:
Lower

Actual:
105 ft.

SWF/LF (SWIS):
Region: STATE
Facility ID: 19-AA-0801
Lat/Long: 33.92413 / -118.11214
Owner Name: LA County San. Dist. & Downey Area R.& T
Owner Telephone: 5626997411
Owner Address: Not reported
Owner Address2: P.O. Box 4998
Owner City,St,Zip: Whittier, CA 90607
Operational Status: Active
Operator: LA County San. Dist. & Downey Area R.& T
Operator Phone: 5626997411

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

Operator Address: Not reported
Operator Address2: P.O. Box 4998
Operator City,St,Zip: Whittier, CA 90607
Permit Date: 11/23/1999
Permit Status: Permitted
Permitted Acreage: $6.20
Activity: Large Volume Transfer/Proc Facility
Regulation Status: Permitted
Landuse Name: Residential,Industrial,Commercial
GIS Source: Map
Category: Transfer/Processing
Unit Number: 01
Inspection Frequency: Monthly
Accepted Waste: Construction/demolition,Green Materials,Industrial,Mixed municipal
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 19-AA-0801
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: 5000
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 5000
Remaining Capacity: Not reported
Remaining Capacity with Units: Tons/day
Lat/Long: 33.92413 / -118.11214

LOS ANGELES CO. LF:
Site ID: 181
Alt. Address: N/A
Site Contact: Not reported
Site Contact Phone: (562) 622-3503
Site Email: sono@lacsd.org
Site Website: http://www.lacsd.org/about/solid_waste_facilities/dart.asp
Site Type: Transfer and Processing Facility
Site SWIS Number: 19-AA-0801
Beginning Operation Date: N/A
Ending Operation Date: N/A
Local Enforcement Agency: County Of Los Angeles Department of Public Health
Maximun Depth Fill(Ft): N/A
Permitted Capacity: 5000
Present Use: Transfer/Processing Facility
Remaining Capacity(Million): N/A
Status: Active
Waste Accepted: Construction & Demolition;Green Materials;Household Trash;Industrial Non-Hazardous;
Hours of Operation: Monday - Friday 6 am - 5:30 pm ; Saturday 6 am - 1:30 pm
Disposal Area (Acre): N/A

Detail As Of 01/2014:
Operator Name: County of Los Angeles Sanitation Districts
Operator Address: 1955 Workman Mill Road
Operator City/State/Zip: Whittier, CA 90601
Operator Contact: Willy Mejia
Operator Telephone: (562) 699-7411x6069
Operator Email: wmejia@lacsd.org
Owner Name: County of Los Angeles Sanitation Districts
Owner Address: 1955 Workman Mill Road

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

Owner City/State/Zip: Whittier, CA 90601
Owner Contact: Willy Mejia
Owner Telephone: (562) 699-7411x6069
Owner Email: wmejia@lacsd.org

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Not reported
Agency Name: T.D. HAMLIN DISPOSAL
Agency Department: Not reported
Agency Address: Not reported
Agency City,St,Zip: Not reported
Agency Contact: Not reported
Agency Telephone: Not reported
Land Owner Name: Not reported
Land Owner Address: Not reported
Land Owner City,St,Zip: CA
Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 4
Facility Type: Not reported
Facility Description: Not reported
Facility Telephone: Not reported
SWAT Facility Name: Not reported
Primary SIC: Not reported
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: Not reported
Waste Discharge System: False
Solid Waste Assessment Test Program: True
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: T.D. HAMLIN DISPOSAL
Threat to Water Quality: Not reported
Sub Chapter 15: False
Regional Board Project Officer: LT
Number of WMUDS at Facility: 1
Section Range: Not reported
RCRA Facility: Not reported
Waste Discharge Requirements: Not reported
Self-Monitoring Rept. Frequency: Not reported
Waste Discharge System ID: 4 190208NUR
Solid Waste Information ID: Not reported

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

CHMIRS:

OES Incident Number:	13-5805
OES notification:	09/16/2013
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Diked of the storm drain system
Spill Site:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	1045
Year:	2013
Agency:	Downey FD
Incident Date:	9/16/2013
Admin Agency:	Downey Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Diked of the storm drain system
E Date:	Not reported
Substance:	Aerosol Cans
Quantity Released:	UNK
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	25-30
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller is reporting an unknown amount of aerosol cans that were burned up in a metal recycling fire. The release was to the air. The facility was evacuated during the fire, all have returned to work.

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	191242
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I016727
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	8/21/2001
STATUS CODE NAME:	Active
STATUS DATE:	8/21/2001
PLACE SIZE:	6
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	David Rothbart
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	562-622-3503
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Los Angeles County Sanitation Districts
OPERATOR ADDRESS:	PO Box 4998
OPERATOR CITY:	Whittier
OPERATOR STATE:	California
OPERATOR ZIP:	90607
OPERATOR CONTACT NAME:	Pat Freemon
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	562-699-7315
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Special District

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	562-699-7411
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	San Gabriel River
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	4953-Refuse Systems
SECONDARY SIC:	5093-Scrap and Waste Materials
TERTIARY SIC:	Not reported

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	191242
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I016727
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/21/2001
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Los Angeles County Sanitation Districts
Discharge Address:	PO Box 4998
Discharge City:	Whittier
Discharge State:	California
Discharge Zip:	90607
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

83
SSE
1/4-1/2
0.350 mi.
1847 ft.

A C PETERSON COMPANY INC
12207 WOODRUFF AVE S
DOWNEY, CA 90242

LUST
HIST CORTESE

S103281958
N/A

Relative:
Lower

Actual:
102 ft.

LUST:

Region:	STATE
Global Id:	T0603704798
Latitude:	33.922741
Longitude:	-118.117178
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/11/1997
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-09291
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704798
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704798
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704798
Status:	Completed - Case Closed
Status Date:	12/11/1997

Global Id:	T0603704798
Status:	Open - Case Begin Date
Status Date:	09/09/1997

Regulatory Activities:

Global Id:	T0603704798
Action Type:	Other
Date:	09/09/1997
Action:	Leak Stopped

A C PETERSON COMPANY INC (Continued) **S103281958**

Global Id: T0603704798
Action Type: Other
Date: 10/20/1997
Action: Leak Discovery

Global Id: T0603704798
Action Type: Other
Date: 12/11/1997
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-09291
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603704798
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: 10/20/1997
Date Leak First Reported: 12/11/1997
Date Leak Record Entered: 12/23/1997
Date Confirmation Began: Not reported
Date Leak Stopped: 9/9/1997
Date Case Last Changed on Database: 12/23/1997
Date the Case was Closed: 12/11/1997
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1014.655653661870169627611234
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported

A C PETERSON COMPANY INC (Continued) **S103281958**

Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	A. C. PETERSON COMPANY, INC.
RP Address:	10704 RICHEON AVE., DOWNEY, CA 90240
Program:	LUST
Lat/Long:	33.9221595 / -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:	ALL THE CONTAMINATED SOILS WERE EXCAVATED AND NONE DISPOSED

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-09291

U84 **SHELL** **LUST** **S105033684**
NNW **8767 FIRESTONE BLVD E** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.365 mi.
1926 ft. **Site 1 of 2 in cluster U**

Relative:
Higher

Actual:
116 ft.

LUST:

Region:	STATE
Global Id:	T0603703424
Latitude:	33.936231999
Longitude:	-118.1242328
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/03/1991
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-09470
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703424
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703424
Contact Type:	Regional Board Caseworker

SHELL (Continued) **S105033684**

Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603703424
Status: Completed - Case Closed
Status Date: 04/03/1991

Global Id: T0603703424
Status: Open - Case Begin Date
Status Date: 07/20/1990

Global Id: T0603703424
Status: Open - Remediation
Status Date: 10/03/1990

Regulatory Activities:
Global Id: T0603703424
Action Type: Other
Date: 07/20/1990
Action: Leak Stopped

Global Id: T0603703424
Action Type: Other
Date: 07/20/1990
Action: Leak Discovery

Global Id: T0603703424
Action Type: Other
Date: 10/03/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-09470
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703424
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: LAKEWOOD
Enforcement Type: Not reported
Date Leak Discovered: 7/20/1990
Date Leak First Reported: 10/3/1990

SHELL (Continued) **S105033684**

Date Leak Record Entered: 12/4/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 7/20/1990
Date Case Last Changed on Database: 12/5/1990
Date the Case was Closed: 4/3/1991
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: TADROS, JOHN
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1861.8096849787244570889546702
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: 10/3/1990
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: SHELL OIL CO.
RP Address: 511 BROOKHURST ST., N., ANAHEIM, 92801
Program: LUST
Lat/Long: 33.9362573 / -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: IMPACTED SOIL REMOVED BY EXCAVATION DURING TANK REMOVAL.

U85 **SHELL STATION** **SWEEPS UST** **U001562968**
NNW **8767 FIRESTONE** **HIST UST** **N/A**
1/4-1/2 **DOWNEY, CA 90242** **HIST CORTESE**
0.365 mi.
1926 ft. **Site 2 of 2 in cluster U**

Relative:
Higher

Actual:
116 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 9470
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009470-000001
Tank Status: Not reported

SHELL STATION (Continued) **U001562968**

Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	5
Status:	Not reported
Comp Number:	9470
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-009470-000002
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	9470
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-009470-000003
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	9470
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-009470-000004
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

SHELL STATION (Continued) **U001562968**

Status:	Not reported
Comp Number:	9470
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-009470-000005
Tank Status:	Not reported
Capacity:	200
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

HIST UST:

File Number:	00028604
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028604.pdf
Region:	STATE
Facility ID:	00000016861
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	0000000000
Owner Name:	SHELL OIL COMPANY AND MOSES LE
Owner Address:	P.O. BOX 4848
Owner City,St,Zip:	ANAHEIM, CA 92803
Total Tanks:	0004

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

SHELL STATION (Continued) **U001562968**

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-09470

V86 **SITE 24, TANK #2** **HIST CORTESE** **S105023524**
ESE **9821 DOWNEYNORWALK** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.366 mi.
1935 ft. **Site 1 of 2 in cluster V**

Relative:
Lower

Actual:
106 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 2766

V87 **CALSAN INC** **RCRA-SQG** **1000376765**
ESE **9821 DOWNEY NORWALK RD** **LUST** **CAD982049850**
1/4-1/2 **DOWNEY, CA 90241** **UST**
0.366 mi. **SWEEPS UST**
1935 ft. **Site 2 of 2 in cluster V** **HIST UST**
FINDS

Relative:
Lower

HAZNET
LOS ANGELES CO. HMS
NPDES

Actual:
106 ft.

WDS
ECHO

RCRA-SQG:
Date form received by agency: 10/19/1987
Facility name: CALSAN INC
Facility address: 9821 DOWNEY NORWALK RD
DOWNEY, CA 90241
EPA ID: CAD982049850
Contact: ENVIRONMENTAL MANAGER
Contact address: 9821 DOWNEY NORWALK RD
DOWNEY, CA 90241
Contact country: US
Contact telephone: (213) 923-3571
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

CALSAN INC (Continued) **1000376765**

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:	CALSAN INC
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:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

LUST:

Region:	STATE
Global Id:	T0603793083
Latitude:	33.925017
Longitude:	-118.111603
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	02/28/2012
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	AJL
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-09296

CALSAN INC (Continued) **1000376765**

LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603793083
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603793083
Contact Type: Regional Board Caseworker
Contact Name: AHMAD J. LAMAA
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 West 4th Street Suite 200
City: Los Angeles
Email: alamaa@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603793083
Status: Open - Case Begin Date
Status Date: 07/20/2000

Global Id: T0603793083
Status: Open - Site Assessment
Status Date: 07/20/2000

Global Id: T0603793083
Status: Open - Site Assessment
Status Date: 02/28/2012

Regulatory Activities:
Global Id: T0603793083
Action Type: ENFORCEMENT
Date: 05/13/2016
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603793083
Action Type: ENFORCEMENT
Date: 12/21/2011
Action: Referral to Regional Board

Global Id: T0603793083
Action Type: ENFORCEMENT
Date: 02/28/2012
Action: Staff Letter

Global Id: T0603793083

CALSAN INC (Continued) **1000376765**

Action Type:	RESPONSE
Date:	04/01/2012
Action:	Other Report / Document
Global Id:	T0603793083
Action Type:	Other
Date:	07/20/2000
Action:	Leak Discovery
Global Id:	T0603793083
Action Type:	Other
Date:	09/13/2000
Action:	Leak Reported
Global Id:	T0603793083
Action Type:	RESPONSE
Date:	07/13/2016
Action:	Other Report / Document
Global Id:	T0603793083
Action Type:	RESPONSE
Date:	12/21/2011
Action:	Correspondence

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-09296	
Status:	Leak being confirmed	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		OT
Global ID:	T0603793083	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	REGENTVIEW AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	7/20/2000	
Date Leak First Reported:		9/13/2000
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	7/20/2000	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/13/2000
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	MARK GREGOREK	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1113.175213239639922501245769 1

CALSAN INC (Continued) **1000376765**

Source of Cleanup Funding: Tank
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: CALSAN, INC.
RP Address: 9821 DOWNEY & NORWALK BLVD., DOWNEY CA 90241
Program: LUST
Lat/Long: 33.925017 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

UST:
Facility ID: 9296
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.9266301
Longitude: -118.1102165

SWEEPS UST:
Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 5

Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396

CALSAN INC (Continued) **1000376765**

Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000005
Tank Status: A

CALSAN INC (Continued) **1000376765**

Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00026A18
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026A18.pdf
Region: STATE
Facility ID: 00000060954
Facility Type: Other
Other Type: RUBBISH
Contact Name: BILL HARWOOD
Telephone: 2138690801
Owner Name: CALSAN INC
Owner Address: 9821 DOWNEY-NORWALK RD
Owner City,St,Zip: DOWNEY, CA 90241
Total Tanks: 0005

Tank Num: 001
Container Num: 01
Year Installed: Not reported
Tank Capacity: 00007000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 02
Year Installed: Not reported
Tank Capacity: 00007000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 003
Container Num: 03
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 004
Container Num: 04
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

CALSAN INC (Continued) **1000376765**

Tank Num: 005
Container Num: 05
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110002788546

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZNET:
envid: 1000376765
Year: 2013
GEPAID: CAC002716678
Contact: DEBBIE TREADWELL
Telephone: 5624477431
Mailing Name: Not reported
Mailing Address: 1955 WORKMAN MILL RD
Mailing City,St,Zip: WHITTIER, CA 906011415
Gen County: Los Angeles
TSD EPA ID: AZC950823111
TSD County: 99
Waste Category: Not reported
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.4
Cat Decode: Not reported
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Not reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 009483-009296
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 00000344T
Permit Status: Closed

CALSAN INC (Continued) **1000376765**

Region: LA
Permit Category: T
Facility Id: 009483-058959
Facility Type: 0
Facility Status: Permit
Area: 1F
Permit Number: 000768920
Permit Status: Permit

Region: LA
Permit Category: Not reported
Facility Id: 021584-030464
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	189179
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I003532
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	4/3/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/3/1992
PLACE SIZE:	3
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	William Kalpakoff
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	RRomero@calmetservices.com
OPERATOR NAME:	Calmet Services Inc
OPERATOR ADDRESS:	PO Box 2137
OPERATOR CITY:	Paramount
OPERATOR STATE:	California
OPERATOR ZIP:	90723
OPERATOR CONTACT NAME:	Bill Kalpakoff
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	562-259-1239

CALSAN INC (Continued) **1000376765**

OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	562-869-0901
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	San Gabriel River
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	4953-Refuse Systems
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

WDS:

Facility ID:	4 19I003532
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
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:	5628690901
Facility Contact:	RAUL ANGUIANO
Agency Name:	CALMET SERVICES INC
Agency Address:	9821 Downey Norwalk Rd
Agency City,St,Zip:	Downey 902415502
Agency Contact:	RAUL ANGUIANO

CALSAN INC (Continued) **1000376765**

Agency Telephone:	5628690901
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
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 thosewho 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.

ECHO:

Envid:	1000376765
Registry ID:	110002788546
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002788546

88
ENE
1/4-1/2
0.398 mi.
2101 ft.

DOWNEY DUMP **SWF/LF** **S106079140**
9612 ARDINE STREET **N/A**
DOWNEY, CA 90241

Relative: Higher

Actual: 112 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-5382
Lat/Long:	33.93 / -118.11
Owner Name:	City Of Downey
Owner Telephone:	5629047102
Owner Address:	PO Box 7016
Owner Address2:	1111 Brookshire Ave
Owner City,St,Zip:	Downey, CA 90241
Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00

DOWNEY DUMP (Continued) **S106079140**

Activity: Solid Waste Disposal Site
Regulation Status: Pre-regulations
Landuse Name: Not reported
GIS Source: Map
Category: Disposal
Unit Number: 01
Inspection Frequency: Annual
Accepted Waste: Not reported
Closure Date: 09/01/1955
Closure Type: Actual
Disposal Acreage: $13.00
SWIS Num: 19-AA-5382
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 33.93 / -118.11

LOS ANGELES CO. LF:
Site ID: 1920
Alt. Address: 11016 Newville Avenue, Downey, CA 90242; 11014 South Pangborn Avenue, Downey, CA
Site Contact: Not reported
Site Contact Phone: Not reported
Site Email: Not reported
Site Website: Not reported
Site Type: Unknown
Site SWIS Number: 19-AA-5382
Beginning Operation Date: 1950
Ending Operation Date: Sep-55
Local Enforcement Agency: City of Los Angeles, Building and Safety
Maximun Depth Fill(Ft): 30
Permitted Capacity: Not reported
Present Use: Rio San Gabriel Park
Remaining Capacity(Million): Not reported
Status: Closed
Waste Accepted: Household Rubbish; Inert
Hours of Operation: Not reported
Disposal Area (Acre): Not reported

Detail As Of 01/2014:
Operator Name: Charles Pratty
Operator Address: Not reported
Operator City/State/Zip: Not reported
Operator Contact: Not reported
Operator Telephone: Not reported
Operator Email: Not reported
Owner Name: City of Downey
Owner Address: 1111 BROOKSHIRE AVENUE
Owner City/State/Zip: DOWNEY, CA 90241
Owner Contact: Not reported
Owner Telephone: (562) 904-7102
Owner Email: Not reported

89
SSE
1/4-1/2
0.427 mi.
2255 ft.

ASTRO PAK FACILITY
12201 PANGBORN
DOWNEY, CA 90241

Database(s): **SLIC**
EDR ID Number: **1006210223**
EPA ID Number: **N/A**

Relative:
Lower

Actual:
103 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	11/30/2001
Global Id:	SL599992903
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.924327
Longitude:	-118.112505
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0302A
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	No further action required
SLIC:	0302A
Substance:	VOCs
Staff:	John Geroch

90
SSE
1/4-1/2
0.445 mi.
2351 ft.

SEQUEL CONTRACTORS INC
12240 WOODRUFF AVE
DOWNEY, CA 90241

Database(s): **LUST**, **LOS ANGELES CO. HMS**
EDR ID Number: **S102062326**
EPA ID Number: **N/A**

Relative:
Lower

Actual:
102 ft.

LUST:

Region:	STATE
Global Id:	T0603754702
Latitude:	33.921622
Longitude:	-118.11506
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/31/2005
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	TS
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	013260
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SEQUEL CONTRACTORS INC (Continued) **S102062326**

Contact:
Global Id: T0603754702
Contact Type: Local Agency Caseworker
Contact Name: TIM SMITH
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: tsmith@dpw.lacounty.gov
Phone Number: Not reported

Global Id: T0603754702
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603754702
Status: Completed - Case Closed
Status Date: 08/31/2005

Global Id: T0603754702
Status: Open - Case Begin Date
Status Date: 08/10/1999

Global Id: T0603754702
Status: Open - Site Assessment
Status Date: 11/19/1999

Regulatory Activities:
Global Id: T0603754702
Action Type: REMEDIATION
Date: 11/15/1999
Action: Not reported

Global Id: T0603754702
Action Type: Other
Date: 08/10/1999
Action: Leak Discovery

Global Id: T0603754702
Action Type: Other
Date: 11/19/1999
Action: Leak Reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 013002-013260
Facility Type: 0
Facility Status: Closed

SEQUEL CONTRACTORS INC (Continued) **S102062326**

Area: 1F
Permit Number: 00004991T
Permit Status: Closed

91
West
1/4-1/2
0.447 mi.
2359 ft.

RED PHOSPHOROUS SITE **SEMS 1000816939**
11810 LAKEWOOD BLVD. **PRP CAD983668856**
DOWNEY, CA 90241

Relative:
Lower

Actual:
106 ft.

SEMS:

Site ID:	904850
EPA ID:	CAD983668856
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0904850
EPA ID:	CAD983668856
Facility County:	LOS ANGELES
Short Name:	RED PHOSPHOROUS SITE
Congressional District:	29
IFMS ID:	097Q
SMSA Number:	4480
USGC Hydro Unit:	18070105
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.90000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	O
EPA Region:	09
Classification:	Inorganic Waste
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	ACRE
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	11/15/00
Site Fips Code:	06037
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	13003854.00000
Contact Name:	Leslie Ramirez
Contact Tel:	(415) 972-3978
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

RED PHOSPHOROUS SITE (Continued) **1000816939**

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: APPROXIMATELY 100 POUNDS OF RED PHOSPHORUS DISCOVERED BY FIRE FIGHTERS IN DOWNEY, LOS ANGELES COUNTY, CALIF.

CERCLIS Assessment History:

Action Code: 001
Action: Notice Letters Issued
Date Started: / /
Date Completed: 06/01/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL
Date Started: 05/27/93
Date Completed: 06/03/93
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Emergency
Action Anomaly: Not reported

Action Code: 002
Action: Notice Letters Issued
Date Started: / /
Date Completed: 06/04/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE RECORDS
Date Started: 07/22/93
Date Completed: 07/22/93
Priority Level: Admin Record Compiled for a Removal Event

RED PHOSPHOROUS SITE (Continued) **1000816939**

Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

PRP:
PRP name: GUILLERMO ALVAREZ

W92 **COCA-COLA ENTERPRISES-WEST** **LUST** **S104164088**
WNW **8729 CLETA ST** **CHMIRS** **N/A**
1/4-1/2 **DOWNEY, CA 90241** **HIST CORTESE**
0.448 mi.
2366 ft. **Site 1 of 4 in cluster W**

Relative:
Lower

Actual:
109 ft.

LUST:
Region: STATE
Global Id: T0603703951
Latitude: 33.9315234
Longitude: -118.1286758
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/22/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES COUNTY
RB Case Number: I-12279
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603703951
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703951
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603703951
Status: Completed - Case Closed

COCA-COLA ENTERPRISES-WEST (Continued) **S104164088**

Status Date: 07/22/1996

Global Id: T0603703951
Status: Open - Case Begin Date
Status Date: 04/15/1991

Global Id: T0603703951
Status: Open - Site Assessment
Status Date: 05/01/1991

Regulatory Activities:
Global Id: T0603703951
Action Type: Other
Date: 04/15/1991
Action: Leak Stopped

Global Id: T0603703951
Action Type: Other
Date: 05/01/1991
Action: Leak Discovery

Global Id: T0603703951
Action Type: Other
Date: 05/01/1991
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-12279
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703951
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: LAKEWOOD BLVD.
Enforcement Type: Not reported
Date Leak Discovered: 5/1/1991
Date Leak First Reported: 5/1/1991
Date Leak Record Entered: 5/22/1991
Date Confirmation Began: Not reported
Date Leak Stopped: 4/15/1991
Date Case Last Changed on Database: 11/24/1993
Date the Case was Closed: 7/22/1996
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: BERGE, JOHN TEN

COCA-COLA ENTERPRISES-WEST (Continued) **S104164088**

Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	1555.2806405566918506367316477
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	5/1/1991
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:	COCA-COLA ENTERPRISES INC.
RP Address:	PO BOX 4067, OAKLAND, CA 94614-4067
Program:	LUST
Lat/Long:	33.9315234 / -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:	REMEDIAL ACTION WILL BE DETERMINED FOLLOWING THE ASSESSMENT OF LATERAL & VERTICAL EXTENTS OF CONTAMINATION.

CHMIRS:

OES Incident Number:	1-0285
OES notification:	01/15/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported

COCA-COLA ENTERPRISES-WEST (Continued) **S104164088**

CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	1815
Year:	2011
Agency:	Coca Cola Refreshments
Incident Date:	1/15/2011
Admin Agency:	Downey Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Not reported
E Date:	Not reported
Substance:	Ammonia (1-2 PPM)
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	4
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states they had a minor ammonia leak in the engine room of their facility due to unknown causes. Currently, Downey Fire Dept is on scene and is working with the responsible party to contain the leak. Four fleet mechanics that discovered the leak evacuated the area to report the ammonia release.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-12279

W93 **ASTRO PAK FACILITY FORMER** **LUST** **S103437924**
WNW **8708 CLETA ST** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.463 mi.
2442 ft. **Site 2 of 4 in cluster W**

Relative:
Lower

Actual:
109 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-16168	
Status:	Pollution Characterization	
Substance:	Solvents	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		UK
Global ID:	T0603705274	
W Global ID:	Not reported	
Staff:	SLC	
Local Agency:	19000	
Cross Street:	LAKEWOOD	
Enforcement Type:	Not reported	
Date Leak Discovered:	2/24/1993	
Date Leak First Reported:		3/29/1993
Date Leak Record Entered:	2/28/1993	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		8/3/2000
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	OLD CASENO '042293-2'	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1416.22475980971670883257648 47
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		6/3/1991
Pollution Characterization Began:		12/16/1997
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:	ASTRO PAK FACILITY FORMER	
RP Address:	12201 PANGOBORN AVE., DOWNEY, CA 90241	
Program:	SLIC	
Lat/Long:	33.9315254 / -1	
Local Agency Staff:	Not reported	

ASTRO PAK FACILITY FORMER (Continued) **S103437924**

Beneficial Use:	Not reported
Priority:	LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	PCE SOIL & GROUNDWATER CONTAMINATION REFER TO SLIC #302

W94 **MARY MANDELLA** **SWEEPS UST** **S101583465**
WNW **8708 CLETA ST** **CA FID UST** **N/A**
1/4-1/2 **DOWNEY, CA 90241** **HIST CORTESE**
0.463 mi.
2442 ft. **Site 3 of 4 in cluster W**

Relative:
Lower

Actual:
109 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	16168
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-016168-000001
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	1

CA FID UST:

Facility ID:	19003838
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	8430 LUXOR ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	DOWNEY 90241
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-16168

W95 WNW 1/4-1/2 0.476 mi. 2515 ft. **ASTRO PAK CORP.**
8700 CLETA STREET
DOWNEY, CA 90241
Site 4 of 4 in cluster W

SLIC S105520951
ENF N/A

Relative: Lower

Actual: 109 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	05/21/2009
Global Id:	SL2044E1590
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.9312536585241
Longitude:	-118.129141077385
Case Type:	Cleanup Program Site
Case Worker:	BA
Local Agency:	Not reported
RB Case Number:	0302E
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Not reported
Site History:	The former Astro Pak facility is located at 8700-8706 Cleta Street in Downey, California. The property occupies two rectangular parcels that are together approximately 180 feet by 280 feet. Cleta Street borders the site on the north, commercial/industrial properties border the site on the east and west, and residential properties border the site on the south. The facility was used for conducting high-precision industrial components cleaning operations. A vapor degreaser was used during early operations at the site with solvents mainly perchloroethylene (PCE) and trichloroethene (TCE). Site investigations conducted at the site since 1991 indicated that the soil and groundwater beneath the site were impacted with volatile organic compounds (VOCs), mainly PCE and TCE. Various remedial measures have been implemented athe site to remediate the impacted soil and groundwater. In the former degreaser area, approximately 520 tons of soil was removed from an approximate 15-foot by 18-foot area to depths of 25 to 45 feet below ground surface (bgs) by large-diameter bucket auger from December 2002 to January 2003. In the former staging area, approximately 280 tons of shallow soil was removed from an approximate 23-foot by 35-foot area to a depth of 6 feet bgs by excavator in July 2003. From July 2003 through June 2013, a soil vapor extraction (SVE) system operated at the site and removed approximately 26,400 pounds of VOCs from the impacted soil. In November 2004, potassium and sodium permanganate was injected onsite and offsite for groundwater remediation. The injection of ozone gas between July 2008 and July 2010 was applied as a follow-up application of in]situ chemical oxidation (ISCO) for groundwater remediation at and downgradient of the site. Semi-annual groundwater monitoring is being conducted at the site.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	Remediation
SLIC:	0302E
Substance:	VOCs
Staff:	AH

ASTRO PAK CORP. (Continued) **S105520951**

ENF:

Region:	4
Facility Id:	208156
Agency Name:	Astro Pak Corporation
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.931715
Place Longitude:	-118.129354
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	SLIC
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	4SLIC302
Reg Measure Id:	172364
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported

ASTRO PAK CORP. (Continued) **S105520951**

WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	248181
Region:	4
Order / Resolution Number:	R4-2002-0086
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/19/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	06/19/2002
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 4SLIC302
Description:	CAO R4-2002-0086 issued 6/19/02 contains a time schedule for assessment & cleanup of soil & groundwater.
Program:	SLIC
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

---

96 **ALPASE, INC.** **SLIC** **S101540159**
SE **9750 SEAACA** **WDS** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.496 mi.
2617 ft.

Relative:
Lower

Actual:
103 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	11/01/1998
Global Id:	SL184161399
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.921728
Longitude:	-118.112546
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0380
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

ALPASE, INC. (Continued) **S101540159**

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 0380
Substance: TPH
Staff: Jenny Au

WDS:
Facility ID: 4 19I011825
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
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: 5628038675
Facility Contact: AL WALKER
Agency Name: PASE ALUMINUMINC
Agency Address: PO Box 39065
Agency City,St,Zip: Downey 902390065
Agency Contact: AL WALKER
Agency Telephone: 5628038675
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
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 thosewho 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.

97
NNW
1/4-1/2
0.496 mi.
2618 ft.

THRIFTY #291
10808 LAKEWOOD BLVD
DOWNEY, CA 90240

LUST **S102438996**
HAZNET **N/A**
HIST CORTESE
LOS ANGELES CO. HMS

Relative:
Higher

Actual:
117 ft.

LUST:

Region:	STATE
Global Id:	T0603703696
Latitude:	33.938673
Longitude:	-118.12179
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/18/1999
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JW
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-10959
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703696
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703696
Contact Type:	Regional Board Caseworker
Contact Name:	JIMMIE WOO
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	jwoo@waterboards.ca.gov
Phone Number:	2135766600

Status History:

Global Id:	T0603703696
Status:	Completed - Case Closed
Status Date:	11/18/1999

Global Id:	T0603703696
Status:	Open - Case Begin Date
Status Date:	07/10/1995

Global Id:	T0603703696
Status:	Open - Site Assessment
Status Date:	07/10/1995

Global Id:	T0603703696

THRIFTY #291 (Continued) **S102438996**

Status: Open - Site Assessment
Status Date: 04/28/1997

Regulatory Activities:
Global Id: T0603703696
Action Type: Other
Date: 08/30/1995
Action: Leak Stopped

Global Id: T0603703696
Action Type: Other
Date: 08/30/1995
Action: Leak Discovery

Global Id: T0603703696
Action Type: Other
Date: 08/30/1995
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-10959
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: OT
Global ID: T0603703696
W Global ID: Not reported
Staff: JW
Local Agency: 19000
Cross Street: CECILIA
Enforcement Type: Not reported
Date Leak Discovered: 8/30/1995
Date Leak First Reported: 8/30/1995
Date Leak Record Entered: 1/4/1996
Date Confirmation Began: 7/10/1995
Date Leak Stopped: 8/30/1995
Date Case Last Changed on Database: 2/24/2000
Date the Case was Closed: 11/18/1999
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: RON SMITH
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1361.392559638739618631055 5758
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 4/28/1997

THRIFTY #291 (Continued) **S102438996**

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:	1/1/1965
Hist Max MTBE Conc in Groundwater:	220
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Yes
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	THRIFTY OIL COMPANY
RP Address:	13539 E. FOSTER RD., SANTA FE SPRINGS, CA 90670
Program:	LUST
Lat/Long:	33.9389072 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	4/12/99 GRANT DEED INFO; 5/7/99 2ND QTR GW MON RPT 1999; 9/30/99 3RD QTR GW MON RPT 1999; 11/10/99 4TH QTR GW MON RPT 1999; 2/24/00 RPT OF WELL ABANDONMENT

HAZNET:

envid:	S102438996
Year:	2014
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.168
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

envid:	S102438996
Year:	2014
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000

THRIFTY #291 (Continued) **S102438996**

TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.01
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles
envid:	S102438996
Year:	2013
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	CAD980887418
TSD County:	Alameda
Waste Category:	Not reported
Disposal Method:	Not reported
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported
envid:	S102438996
Year:	2013
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	CAD980887418
TSD County:	Alameda
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.726
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported
envid:	S102438996
Year:	2013
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles

THRIFTY #291 (Continued) **S102438996**

TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Not reported
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.0375
Cat Decode: Not reported
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Not reported

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-10959

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 010972-058177
Facility Type: 0
Facility Status: Permit
Area: 1F
Permit Number: 000758808
Permit Status: Permit

X98 **VULTEE TRAINING FIELD** **ENVIROSTOR** **S107737583**
WSW **N/A**
1/4-1/2 **DOWNEY, CA**
0.500 mi.
2640 ft. **Site 1 of 3 in cluster X**

Relative:
Lower

Actual:
103 ft.

ENVIROSTOR:
Facility ID: 80000863
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.925

VULTEE TRAINING FIELD (Continued) **S107737583**

Longitude: -118.1291
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F998400
Alias Type: Federal Facility ID
Alias Name: J09CA7161
Alias Type: INPR
Alias Name: 80000863
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 04/29/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

X99 **AIR FORCE PLANT #16 (NASA)** **ENVIROSTOR** **S107735804**
WSW **N/A**
1/4-1/2 **DOWNEY, CA**
0.500 mi.
2640 ft. **Site 2 of 3 in cluster X**

Relative:
Lower

Actual:
103 ft.

ENVIROSTOR:
Facility ID: 80000160
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.925
Longitude: -118.1291

AIR FORCE PLANT #16 (NASA) (Continued) **S107735804**

APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	AFP #16 (NASA); NASA INDUSTRIAL PLANT DOWNEY
Alias Type:	Alternate Name
Alias Name:	CA99799F530500
Alias Type:	Federal Facility ID
Alias Name:	J09CA0101
Alias Type:	INPR
Alias Name:	80000160
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

X100 **AIR FORCE PLANT #16 (NASA)** **FUDS** **1012129632**
WSW **N/A**
1/2-1 **DOWNEY, CA**
0.503 mi.
2658 ft. **Site 3 of 3 in cluster X**

Relative:
Lower

Actual:
103 ft.

FUDS:

EPA Region:	09
Congressional District:	40
FUDS Number:	J09CA0101
State:	CA
Facility Name:	AIR FORCE PLANT #16 (NASA)
Fiscal Year:	2013
City:	DOWNEY
Federal Facility ID:	CA9799F5305
Telephone:	213-452-3920
INST ID:	60965
County:	LOS ANGELES
RAB:	Not reported
CORPS_DIST:	Los Angeles District (SPL)
NPL Status:	Not Listed
CTC:	30.800000000000001
Current Owner:	Private Sector
Future Prog:	Not reported
Description:	The property is actually a concrete building of approximately 1,150 sq. ft. of floor area. The site is located in the City of Downey, Los Angeles County, California. The site is an old, unsuitable building

AIR FORCE PLANT #16 (NASA) (Continued) **1012129632**

	that is no longer required for use by the National Aeronautic and Space Administration/Rockwell International.
Current Program:	Not reported
History:	Building No. 125 was constructed of reinforced concrete (12 in. thick roof and walls) in 1941. Its original use was a bomb shelter constructed during World War II by the U.S. Army Air Corps. During 1940 and 1941, the Air Force acquired the property by direct purchase. It was later used as a hazardous materials testing laboratory. It has now been abandoned in place. The General Services Administration concurred with NASA plans to demolish the building in accordance with federal property management regulations. Air Force Plant #16 was transferred to NASA in July of 1964. The facility was renamed NASA Industrial Plant, Downey, California. At this time NASA assumed status as the holding agency. Since 9 August 1972 RI was contracted to be custodian of building #125 and other property.
Latitude Degree:	33
Latitude Minute:	56
Latitude Second:	30
Latitude Direction:	N
Longitude Degree:	-118
Longitude Minute:	8
Longitude Second:	45
Longitude Direction:	E

101
SSE
1/2-1
0.538 mi.
2840 ft.

Relative:
Lower

Actual:
101 ft.

MANUFACTURERS WIRE CO **RCRA-SQG** **1000424734**
12320 WOODRUFF AVE **ENVIROSTOR** **CAD981386345**
DOWNEY, CA 90241 **FINDS**
HAZNET
WDS
ECHO

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MANUFACTURERS WIRE CO
Facility address:	12320 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD981386345
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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

MANUFACTURERS WIRE CO (Continued) **1000424734**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: C RINDERLE, JR
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: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/11/1986
Site name: MANUFACTURERS WIRE CO
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 71003652
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO

MANUFACTURERS WIRE CO (Continued) **1000424734**

Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.92041
Longitude: -118.1142
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981386345
Alias Type: EPA Identification Number
Alias Name: 110002140004
Alias Type: EPA (FRS #)
Alias Name: 71003652
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Non-Submittal
Completed Date: 02/01/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110002140004

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US EPA 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.

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.

MANUFACTURERS WIRE CO (Continued) **1000424734**

HAZNET:

envid:	1000424734
Year:	2004
GEPAID:	CAD981386345
Contact:	MICHAEL VOELTZ GENERAL MGR
Telephone:	5628034334
Mailing Name:	Not reported
Mailing Address:	12320 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Disposal, Land Fill
Tons:	0.24
Cat Decode:	Other inorganic solid waste
Method Decode:	Disposal, Land Fill
Facility County:	Los Angeles

envid:	1000424734
Year:	2004
GEPAID:	CAD981386345
Contact:	MICHAEL VOELTZ GENERAL MGR
Telephone:	5628034334
Mailing Name:	Not reported
Mailing Address:	12320 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Liquids with pH <= 2
Disposal Method:	Recycler
Tons:	0.1
Cat Decode:	Liquids with pH <= 2
Method Decode:	Recycler
Facility County:	Los Angeles

envid:	1000424734
Year:	2004
GEPAID:	CAD981386345
Contact:	MICHAEL VOELTZ GENERAL MGR
Telephone:	5628034334
Mailing Name:	Not reported
Mailing Address:	12320 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Unspecified sludge waste
Disposal Method:	Disposal, Land Fill
Tons:	0.2
Cat Decode:	Unspecified sludge waste
Method Decode:	Disposal, Land Fill
Facility County:	Los Angeles

envid:	1000424734
Year:	2004

MANUFACTURERS WIRE CO (Continued) **1000424734**

GEPAID: CAD981386345
Contact: MICHAEL VOELTZ GENERAL MGR
Telephone: 5628034334
Mailing Name: Not reported
Mailing Address: 12320 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: 1.68
Cat Decode: Other organic solids
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: 1000424734
Year: 2004
GEPAID: CAD981386345
Contact: MICHAEL VOELTZ GENERAL MGR
Telephone: 5628034334
Mailing Name: Not reported
Mailing Address: 12320 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAD008488025
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Tons: 1.25
Cat Decode: Unspecified aqueous solution
Method Decode: Recycler
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
8 additional CA_HAZNET: record(s) in the EDR Site Report.

WDS:
Facility ID: 4 19I003691
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: 3237734949
Facility Contact: Michael Voelz
Agency Name: MANUFACTURERS WIRE COMPANY
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 3315
SIC Code 2: Not reported
Primary Waste Type: Not reported

MANUFACTURERS WIRE CO (Continued) **1000424734**

Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
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 thosewho 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.

ECHO:

Envid:	1000424734
Registry ID:	110002140004
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002140004

---

102 West 1/2-1 0.542 mi. 2860 ft.

Relative: Lower

Actual: 108 ft.

DOWNEY FAMILY HOUSING **ENVIROSTOR** **S107736234**
N/A

DOWNEY, CA

ENVIROSTOR:

Facility ID:	80000075
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.93
Longitude:	-118.1305
APN:	NONE SPECIFIED

DOWNEY FAMILY HOUSING (Continued) **S107736234**

Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F531600
Alias Type: Federal Facility ID
Alias Name: J09CA0112
Alias Type: INPR
Alias Name: 80000075
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 06/04/1991
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

103
SSE
1/2-1
0.555 mi.
2931 ft.

ARROW TRANSPORTATION CO., DOWNEY **ENVIROSTOR** **S103950971**
12328 WOODRUFF AVENUE **CHMIRS** **N/A**
DOWNEY, CA 90241 **HIST CORTESE**

Relative:
Lower

Actual:
100 ft.

ENVIROSTOR:
Facility ID: 71002480
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.92045
Longitude: -118.1127
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED

ARROW TRANSPORTATION CO., DOWNEY (Continued) **S103950971**

Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD057349839
Alias Type: EPA Identification Number
Alias Name: 71002480
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:
OES Incident Number: 4-7309
OES notification: 12/19/2014
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported

ARROW TRANSPORTATION CO., DOWNEY (Continued) **S103950971**

Spill Site:	Other
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	SEWAGE
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1545
Year:	2014
Agency:	City of Downey Public Works
Incident Date:	12/19/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sanitary over flow
Quantity Released:	40
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Blockage
Fatals:	No
Comments:	Not reported
Description:	Roots in the line caused this release which has been completely recovered.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-11024

104
WNW
1/2-1
0.615 mi.
3245 ft.

PIH HEALTH HOSPITAL DOWNEY **ENVIROSTOR** **S100217721**
11500 BROOKSHIRE AVE **CHMIRS** **N/A**
DOWNEY, CA 90241 **LOS ANGELES CO. HMS**

Relative:
Higher

Actual:
112 ft.

ENVIROSTOR:

Facility ID:	71003236
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.93529
Longitude: -118.1302
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000038831
Alias Type: EPA Identification Number
Alias Name: 71003236
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:
OES Incident Number: 1-3728
OES notification: 06/21/2011
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Unknown Flood Control Channel
Spill Site:	Merchant/Business
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gram(s)
Other:	Not reported
Date/Time:	1100
Year:	2011
Agency:	City of Downey FD
Incident Date:	6/21/2011
Admin Agency:	Downey Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Unknown Flood Control Channel
E Date:	Not reported
Substance:	Unknown Dry Powder, White Colored, Poss Oxidizer/Corrosive
Quantity Released:	3
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	3
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Vehicle repair inside a trailer resulted in exposure, material was on the walls of the trailer and made the repairmen ill, during decontamination the rinse agent and the material

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

flowed into the storm drain after an catch basin failed, unknown who is handling containment and clean up..

OES Incident Number:	907920
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**14-SEP-89**
Property Use:	300
Agency Id Number:	19055
Agency Incident Number:	89-9003
Time Notified:	854
Time Completed:	1300
Surrounding Area:	400
Estimated Temperature:	75
Property Management:	P
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	4
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	D. LOCKARD, CAPTAIN
Report Date:	19-SEP-89
Facility Telephone:	213 869-7331
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	14-SEP-89
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	18-MAY-90
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Not reported
OES Incident Number:	012809
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**07-SEP-90**
Property Use:	300
Agency Id Number:	19055
Agency Incident Number:	20150
Time Notified:	1229
Time Completed:	1600
Surrounding Area:	400
Estimated Temperature:	Not reported
Property Management:	P
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	0
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	D. LOCKARD, CAPT.#9
Report Date:	07-SEP-90
Facility Telephone:	213 869-7331
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	07-SEP-90
Admin Agency:	Not reported
Amount:	Not reported

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Contained:	Not reported
Site Type:	Not reported
E Date:	06-JUN-91
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	N
Description:	Not reported

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	011279-058944
Facility Type:	0
Facility Status:	Permit
Area:	1F
Permit Number:	000779447
Permit Status:	Permit

105
ESE
1/2-1
0.634 mi.
3348 ft.

PEACOCK ENGINEERING & MANUFACTURING **ENVIROSTOR** **S101480839**
10620 EAST FIRESTONE BOULEVARD **SLIC** **N/A**
NORWALK, CA 90650

Relative:
Higher

Actual:
111 ft.

ENVIROSTOR:

Facility ID:	19350006
Status:	Refer: Other Agency
Status Date:	08/31/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	Not reported
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

PEACOCK ENGINEERING & MANUFACTURING (Continued) **S101480839**

Funding: Not reported
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * OXYGENATED SOLVENTS * UNSPECIFIED ACID SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * WASTE OIL & MIXED OIL Cyanide (free
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD057352403
Alias Type: EPA Identification Number
Alias Name: 19350006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/08/1994
Comments: CALSITES VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/09/1988
Comments: SITE SCREENING DONE DHS WILL CONDUCT FURTHER INVESTIGATION DUE TO THE POTENTIAL FOR CONTAMINATION FROM UNDERGROUND TANKS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/15/1988
Comments: SITE SCREENING DONE REASSESSMENT OF PA DONE BY E&E RECOMMEND NFA UNDER CERCLA DUE TO LOW ROUTE CHARACTERISTICS VALUE AND LOW TARGET VALUE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/10/1987
Comments: SITE SCREENING DONE CERCLIS SITE

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/01/1998
Global Id: SL184791462

PEACOCK ENGINEERING & MANUFACTURING (Continued) **S101480839**

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.9256104304938
Longitude:	-118.106782436371
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0640
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

---

106 **QM BULK STORAGE FAC** **ENVIROSTOR** **S107737112**
SSE **N/A**
1/2-1 **LONG BEACH, CA**
0.639 mi.
3374 ft.

Relative:
Lower

Actual:
100 ft.

ENVIROSTOR:

Facility ID:	80000423
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.91944
Longitude:	-118.1125
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F556900
Alias Type:	Federal Facility ID
Alias Name:	J09CA0559
Alias Type:	INPR
Alias Name:	80000423
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

QM BULK STORAGE FAC (Continued) **S107737112**

Completed Document Type: Inventory Project Report (INPR)
Completed Date: 04/18/1991
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

107
NNW
1/2-1
0.665 mi.
3509 ft.

Relative:
Higher

Actual:
119 ft.

DOWNEY USD
11040 BROOKSHIRE AVE
DOWNEY, CA 90241

RCRA-SQG **1000314683**
ENVIROSTOR **CAD100610716**
SCH
SWEEPS UST
FINDS
HAZNET
NPDES
ECHO

RCRA-SQG:
Date form received by agency: 09/30/1986
Facility name: DOWNEY USD
Facility address: 11040 BROOKSHIRE AVE
DOWNEY, CA 90241
EPA ID: CAD100610716
Mailing address: 11627 BROOKSHIRE AVE
DOWNEY, CA 90241
Contact: ENVIRONMENTAL MANAGER
Contact address: 11040 BROOKSHIRE AVE
DOWNEY, CA 90241
Contact country: US
Contact telephone: (213) 923-6711
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: District
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DOWNEY UNIFIED SCHOOL DIST

DOWNEY USD (Continued) **1000314683**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 19820097
Status: No Further Action
Status Date: 01/12/2006
Site Code: 304414
Site Type: School Investigation
Site Type Detailed: School
Acres: 28
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.93801
Longitude: -118.1258
APN: 6254-031-900, 6254031904
Past Use: * EDUCATIONAL SERVICES
Potential COC: Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead Mercury (elemental TPH-gas Cadmium and compounds Chromium VI
Confirmed COC: TPH-gas Cadmium and compounds Chromium VI Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead Mercury (elemental
Potential Description: SOIL

DOWNEY USD (Continued) **1000314683**

Alias Name: DOWNEY HIGH SCHOOL
Alias Type: Alternate Name
Alias Name: DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: DOWNEY USD-DOWNEY HIGH SCHOOL
Alias Type: Alternate Name
Alias Name: 6254-031-900
Alias Type: APN
Alias Name: 6254031904
Alias Type: APN
Alias Name: 304414
Alias Type: Project Code (Site Code)
Alias Name: 19820097
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/19/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/18/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/24/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/12/2006
Comments: Transformers on site were documented to be dry-type transformers and do not warrant PCB sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 08/04/2004
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/01/2003
Comments: Initial Study for Measure D Improvements

DOWNEY USD (Continued) **1000314683**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/25/2006
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19820097
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	28
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304414
Assembly:	58
Senate:	32
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	01/12/2006
Restricted Use:	NO
Funding:	School District
Latitude:	33.93801
Longitude:	-118.1258
APN:	6254-031-900, 6254031904
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Lead, Mercury (elemental, TPH-gas, Cadmium and compounds, Chromium VI
Confirmed COC:	TPH-gas, Cadmium and compounds, Chromium VI, Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Lead, Mercury (elemental
Potential Description:	SOIL
Alias Name:	DOWNEY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	DOWNEY USD-DOWNEY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	6254-031-900
Alias Type:	APN

DOWNEY USD (Continued) **1000314683**

Alias Name: 6254031904
Alias Type: APN
Alias Name: 304414
Alias Type: Project Code (Site Code)
Alias Name: 19820097
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/19/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/18/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/24/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/12/2006
Comments: Transformers on site were documented to be dry-type transformers and do not warrant PCB sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 08/04/2004
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/01/2003
Comments: Initial Study for Measure D Improvements

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/25/2006
Comments: Not reported

Future Area Name: Not reported

DOWNEY USD (Continued) **1000314683**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Status: Active
Comp Number: 13673
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

FINDS:

Registry ID: 110002666268

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1000314683
Year: 2012
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Los Angeles
TSD EPA ID: CAD008364432

DOWNEY USD (Continued) **1000314683**

TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.025
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000314683
Year: 2012
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Not reported
Tons: 0.15
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000314683
Year: 2012
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: Not reported
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000314683
Year: 2012
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Los Angeles

DOWNEY USD (Continued) **1000314683**

TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0175
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000314683
Year: 2010
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Not reported
TSD EPA ID: CAD008364432
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.175
Cat Decode: Laboratory waste chemicals
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
45 additional CA_HAZNET: record(s) in the EDR Site Report.

NPDES:
Npdes Number: CAS000002
Facility Status: Terminated
Agency Id: 0
Region: 4
Regulatory Measure Id: 424987
Order No: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 4 19C363336
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 03/29/2012
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 08/20/2015
Discharge Name: Downey Unified School District
Discharge Address: 11627 Brookshire Ave
Discharge City: Downey
Discharge State: California
Discharge Zip: 90241
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported

DOWNEY USD (Continued) **1000314683**

STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported

DOWNEY USD (Continued) **1000314683**

Region:	4
Regulatory Measure Id:	187620
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C322285
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	6/26/2003
STATUS CODE NAME:	Active
STATUS DATE:	4/24/2012
PLACE SIZE:	15
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	BUCK Weinfurter
FACILITY CONTACT TITLE:	Director Of Maintenance
FACILITY CONTACT PHONE:	5629043592
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Downey Unified School District
OPERATOR ADDRESS:	11627 Brookshire Ave
OPERATOR CITY:	Downey
OPERATOR STATE:	California
OPERATOR ZIP:	90241
OPERATOR CONTACT NAME:	Robert Weinfurter
OPERATOR CONTACT TITLE:	Director, M.O.T. Services
OPERATOR CONTACT PHONE:	562-469-6701
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	bweinfurter@dusd.net
OPERATOR TYPE:	Special District
DEVELOPER NAME:	Downey Unified School District
DEVELOPER ADDRESS:	11627 Brookshire Ave
DEVELOPER CITY:	Downey
DEVELOPER STATE:	California
DEVELOPER ZIP:	90241
DEVELOPER CONTACT NAME:	Robert Weinfurter
DEVELOPER CONTACT TITLE:	Director, M.O.T. Services
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	562-904-3592
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported

DOWNEY USD (Continued) **1000314683**

CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	robert weinfurter
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	07-JUL-10
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

ECHO:

Envid:	1000314683
Registry ID:	110002666268
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002666268

---

108 SW 1/2-1 0.665 mi. 3513 ft. **VULTEE AIRCRAFT CO** **ENVIROSTOR** **S107737582 N/A**

DOWNEY, CA

Relative: Lower

Actual: 97 ft.

ENVIROSTOR:

Facility ID:	80000851
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.92083
Longitude:	-118.1291
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F997200
Alias Type:	Federal Facility ID
Alias Name:	J09CA7149

VULTEE AIRCRAFT CO (Continued) **S107737582**

Alias Type: INPR
Alias Name: 80000851
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 04/29/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

109
SSW
1/2-1
0.778 mi.
4110 ft.

STORM DRAIN **Notify 65** **S100178469**
BELLFLOWER&IMPERIAL HWY **N/A**
DOWNEY, CA

Relative:
Lower

Actual:
95 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

110
WSW
1/2-1
0.818 mi.
4321 ft.

NASA INDUSTRIAL PLANT- KAISER **ENVIROSTOR** **S104564877**
12214 LAKEWOOD BLVD. **SLIC** **N/A**
DOWNEY, CA 90241 **VCP**
HIST CORTESE

Relative:
Lower

Actual:
101 ft.

ENVIROSTOR:
Facility ID: 19370366
Status: No Further Action
Status Date: 08/02/2012
Site Code: 301157
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 165
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 4 - Los Angeles
Lead Agency: RWQCB 4 - Los Angeles,SMBRP
Program Manager: Tedd Yargeau
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Assembly: 58

NASA INDUSTRIAL PLANT- KAISER (Continued) **S104564877**

Senate:	32
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.91829
Longitude:	-118.1326
APN:	6256-004-019, 6256004036
Past Use:	AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, MANUFACTURING - INDUSTRIAL MACHINERY, RESEARCH - AEROSPACE
Potential COC:	Arsenic Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE Arsenic
Potential Description:	OTH, SOIL, SV, IA
Alias Name:	NASA INDUSTRIAL PLANT
Alias Type:	Alternate Name
Alias Name:	6256-004-019
Alias Type:	APN
Alias Name:	6256004036
Alias Type:	APN
Alias Name:	110000830824
Alias Type:	EPA (FRS #)
Alias Name:	301157
Alias Type:	Project Code (Site Code)
Alias Name:	19370366
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/20/1995
Comments:	Site was identified from a non-emergency release report dated 12-23-94. Ground water at the site is contaminated with TCE and PCE. Due to evidence of a release of hazardous waste, a PEA is required. A letter of notification has been sent to the contact person.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/04/2004
Comments:	VCA

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/07/2002
Comments:	A Voluntary Cleanup Agreement was signed by DTSC and Kaiser Health Foundation on November 7, 2002. The purpose of the VCA is to conduct a PEA on Parcels II and IV of the Site. Parcels II and IV are being proposed for hospital complex development.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

NASA INDUSTRIAL PLANT- KAISER (Continued) **S104564877**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	02/27/2009
Global Id:	SL2045E1618
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.9239723749663
Longitude:	-118.127961158752
Case Type:	Cleanup Program Site
Case Worker:	BA
Local Agency:	Not reported
RB Case Number:	0302C
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern:	Not reported
Site History:	The former NASA Industrial Plant (site) occupies approximately 155 acres in Downey, California, and is bound to the north by Stewart and Gray Road, to the south by Imperial Highway, to the west by Lakewood Boulevard and to the east by Bellflower Boulevard. The site was used for aircraft, and later, aerospace manufacturing by a series of entities from 1929 through 1999. The site was government owned and contractor operated. NASA utilized the plant for manufacture of Apollo and Space Shuttle components. Site activities included the use and storage of chlorinated solvents in support of various manufacturing processes. In 1986 the government declared the property excess to its needs and site manufacturing operations ceased at the site. During the fourth quarter of 2003, the property was transferred from NASA to the City of Downey, California. Following early transfer from NASA to the City of Downey, the various portions of the property were redeveloped. International Risk Assumption-Downey LLC assumed the role of responsible party as part of the early transfer arrangements between NASA, the State of California, and the City of Downey. Site assessments conducted at the site indicated that the soil and groundwater were impacted with volatile organic compounds (VOCs) mainly perchloroethylene (PCE), trichloroethene (TCE) and Freon 113. A soil vapor extraction (SVE) system was installed and operated at various locations of the site from 2000 to 2008 to cleanup the soil. During the period of operation, the system removed approximately 6,000 pounds of VOCs. Sodium permanganate solution was injected into a silt layer at the 40 to 45 feet bgs interval below former Building 244 for in situ remediation to cleanup the residual VOCs in the silt layer of the vadose zone. In February 2012, the Regional Board issued a No Further Action (NFA) for site soils. Groundwater beneath the site has been subjected to in situ bioremediation using Enhanced Reductive Dechlorination (ERD) to address the dissolved phase PCE and TCE as well as the subsequent breakdown products from the remedial activities. The ERD process involved the injection of approximately 14,000,000 gallons of dilute carbohydrate solution at 174 points across the site beginning in November 2005. In October 2010, a de-halogenating bacteria was added to the solution injected in the southernmost site locations to enhance the remediation of VOCs at this location. Active injections of carbohydrate solution were stopped after first quarter 2012.

NASA INDUSTRIAL PLANT- KAISER (Continued) **S104564877**

Post-remediation groundwater monitoring is being conducted at the site.

Click here to access the California GeoTracker records for this facility:

VCP:

Facility ID:	19370366
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	165
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 4 - Los Angeles
Lead Agency:	RWQCB 4 - Los Angeles,SMBRP
Lead Agency Description:	RWQCB 4 - Los Angeles
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Tedd Yargeau
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Site Code:	301157
Assembly:	58
Senate:	32
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	08/02/2012
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.91829 / -118.1326
APN:	6256-004-019, 6256004036
Past Use:	AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, MANUFACTURING - INDUSTRIAL MACHINERY, RESEARCH - AEROSPACE
Potential COC:	30001, 30022, 30027
Confirmed COC:	30022,30027,30001
Potential Description:	OTH, SOIL, SV, IA
Alias Name:	NASA INDUSTRIAL PLANT
Alias Type:	Alternate Name
Alias Name:	6256-004-019
Alias Type:	APN
Alias Name:	6256004036
Alias Type:	APN
Alias Name:	110000830824
Alias Type:	EPA (FRS #)
Alias Name:	301157
Alias Type:	Project Code (Site Code)
Alias Name:	19370366
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/20/1995
Comments:	Site was identified from a non-emergency release report dated 12-23-94. Ground water at the site is contaminated with TCE and PCE. Due to evidence of a release of hazardous waste, a PEA is required. A letter of notification has been sent to the contact person.

NASA INDUSTRIAL PLANT- KAISER (Continued) **S104564877**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/04/2004
Comments:	VCA

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/07/2002
Comments:	A Voluntary Cleanup Agreement was signed by DTSC and Kaiser Health Foundation on November 7, 2002. The purpose of the VCA is to conduct a PEA on Parcels II and IV of the Site. Parcels II and IV are being proposed for hospital complex development.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-00386

111
NNE
1/2-1
0.828 mi.
4373 ft.

Relative: Higher

Actual: 126 ft.

EAST MIDDLE SCHOOL **ENVIROSTOR** **S103620928**
10301 WOODRUFF AVENUE **SCH** **N/A**
DOWNEY, CA 90241

ENVIROSTOR:

Facility ID:	19820106
Status:	Inactive - Withdrawn
Status Date:	04/16/2007
Site Code:	304434
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	0.4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District

EAST MIDDLE SCHOOL (Continued) **S103620928**

Latitude: 33.94227
Longitude: -118.1128
APN: 628-501-4902
Past Use: * EDUCATIONAL SERVICES
Potential COC: Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead
Confirmed COC: Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead
Potential Description: SOIL
Alias Name: DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: DOWNEY USD-EAST MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: EAST MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: 628-501-4902
Alias Type: APN
Alias Name: 304434
Alias Type: Project Code (Site Code)
Alias Name: 19820106
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/16/2007
Comments: CRU complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/07/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/21/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/22/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

EAST MIDDLE SCHOOL (Continued) **S103620928**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19820106
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304434
Assembly: 58
Senate: 32
Special Program Status: Not reported
Status: Inactive - Withdrawn
Status Date: 04/16/2007
Restricted Use: NO
Funding: School District
Latitude: 33.94227
Longitude: -118.1128
APN: 628-501-4902
Past Use: * EDUCATIONAL SERVICES
Potential COC: Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Lead
Confirmed COC: Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Lead
Potential Description: SOIL
Alias Name: DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: DOWNEY USD-EAST MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: EAST MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: 628-501-4902
Alias Type: APN
Alias Name: 304434
Alias Type: Project Code (Site Code)
Alias Name: 19820106
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE

EAST MIDDLE SCHOOL (Continued) **S103620928**

Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/16/2007
Comments: CRU complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/07/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/21/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/22/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

112 SE 1/2-1 0.953 mi. 5033 ft.

COSTCO WHOLESALE NO 410
12324 HOXIE AVE
NORWALK, CA 90650

RCRA-LQG 1004677945
ENVIROSTOR CAR000103283
US AIRS
HAZNET
NPDES

Relative: Lower

Actual: 102 ft.

RCRA-LQG:
Date form received by agency: 05/05/2014
Facility name: COSTCO WHOLESALE NO 410
Facility address: 12324 HOXIE AVE
NORWALK, CA 90650
EPA ID: CAR000103283
Mailing address: 3207 GREY HAWK CT
STE 200
CARLSBAD, CA 92010
Contact: ELIZABETH CAMPOS
Contact address: 3207 GREY HAWK CT STE 200
CARLSBAD, CA 92010
Contact country: US
Contact telephone: 760-602-8709
Contact email: ECAMPOS@3ECOMPANY.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

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:	NORWALK LA MIRADA UNIFIED SCHOOL DIST
Owner/operator address:	12700 NORWALK BLVD
	NORWALK, 90650
Owner/operator country:	US
Owner/operator telephone:	562-929-5700
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	11/27/1985
Owner/Op end date:	Not reported

Owner/operator name:	COSTCO WHOLESALE CORP
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:	04/18/1983
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

. Waste code:	122
. Waste name:	122

. Waste code:	131
. Waste name:	131

. Waste code:	133

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 151
. Waste name: 151

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 223
. Waste name: 223

. Waste code: 232
. Waste name: 232

. Waste code: 271
. Waste name: 271

. Waste code: 272
. Waste name: 272

. Waste code: 281
. Waste name: 281

. Waste code: 291
. Waste name: 291

. Waste code: 311
. Waste name: 311

. Waste code: 331

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: 541
. Waste name: 541

. Waste code: 561
. Waste name: 561

. Waste code: 611
. Waste name: 611

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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.

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Historical Generators:
Date form received by agency: 08/20/2001
Site name: COSTCO WHOLESALE NO 410
Classification: Small Quantity Generator

. Waste code: D011
. Waste name: SILVER

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 71003261
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.91995

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

Longitude: -118.1025
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000060246
Alias Type: EPA Identification Number
Alias Name: 71003261
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

US AIRS MINOR:
Envid: 1004677945
Region Code: 09
Programmatic ID: AIR 0900000006037R9992
Facility Registry ID: 110012221461
D and B Number: Not reported
Primary SIC Code: 5531
NAICS Code: 562112
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 09
Programmatic ID: AIR 0900000006037R9992
Facility Registry ID: 110012221461
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Stratospheric Ozone Protection
Activity Date: 2004-03-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

HAZNET:
envid: 1004677945

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

Year:	2014
GEPAID:	CAR000103283
Contact:	LISA SIMPSON
Telephone:	4253136275
Mailing Name:	Not reported
Mailing Address:	PO BOX 35005
Mailing City,St,Zip:	SEATTLE, WA 981243405
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2245
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	1004677945
Year:	2014
GEPAID:	CAR000103283
Contact:	LISA SIMPSON
Telephone:	4253136275
Mailing Name:	Not reported
Mailing Address:	PO BOX 35005
Mailing City,St,Zip:	SEATTLE, WA 981243405
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.001
Cat Decode:	Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	1004677945
Year:	2014
GEPAID:	CAR000103283
Contact:	LISA SIMPSON
Telephone:	4253136275
Mailing Name:	Not reported
Mailing Address:	PO BOX 35005
Mailing City,St,Zip:	SEATTLE, WA 981243405
Gen County:	Los Angeles
TSD EPA ID:	INR000110197
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.003
Cat Decode:	Unspecified solvent mixture
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

Facility County: Los Angeles

envid: 1004677945
Year: 2014
GEPAID: CAR000103283
Contact: LISA SIMPSON
Telephone: 4253136275
Mailing Name: Not reported
Mailing Address: PO BOX 35005
Mailing City,St,Zip: SEATTLE, WA 981243405
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1325
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1004677945
Year: 2014
GEPAID: CAR000103283
Contact: LISA SIMPSON
Telephone: 4253136275
Mailing Name: Not reported
Mailing Address: PO BOX 35005
Mailing City,St,Zip: SEATTLE, WA 981243405
Gen County: Los Angeles
TSD EPA ID: INR000110197
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.168
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
58 additional CA_HAZNET: record(s) in the EDR Site Report.

NPDES:
Npdes Number: CAS000002
Facility Status: Active
Agency Id: 0
Region: 4
Regulatory Measure Id: 456320
Order No: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 4 19C374107
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

Effective Date Of Regulatory Measure:	09/24/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	COSTCO WHOLESALE
Discharge Address:	500 N State College Blvd
Discharge City:	Orange
Discharge State:	California
Discharge Zip:	92868
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

---

113 **SUSSMAN MIDDLE SCHOOL** **ENVIROSTOR** **S103626770**
WSW **12500 BIRCHDALE AVENUE** **SCH** **N/A**
1/2-1 **DOWNEY, CA 90242**
0.962 mi.
5077 ft.

Relative:
Lower

Actual:
102 ft.

ENVIROSTOR:

Facility ID:	19820107
Status:	No Further Action
Status Date:	11/13/2003
Site Code:	304432
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	.4
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.93513
Longitude:	-118.1333
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic Lead Aldrin Chlordane DDD DDE DDT Dieldrin Endosulfan Endrin HCH (alpha HCH (beta HCH (gamma) Lindane HCH-technical Heptachlor Heptachlor epoxide Mirex Toxaphene
Confirmed COC:	30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30010-NO 30013-NO 30309-NO 30313-NO 30314-NO 30315-NO 30316-NO 30207-NO 30400-NO 30261-NO 30043-NO 30308-NO 30023-NO
Potential Description:	SOIL
Alias Name:	DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	DOWNEY USD-SUSSMAN MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	SUSSMAN MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	304432
Alias Type:	Project Code (Site Code)
Alias Name:	19820107
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE

SUSSMAN MIDDLE SCHOOL (Continued) **S103626770**

Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/27/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/08/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19820107
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: .4
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304432
Assembly: 58
Senate: 32
Special Program Status: Not reported
Status: No Further Action
Status Date: 11/13/2003
Restricted Use: NO
Funding: School District
Latitude: 33.93513
Longitude: -118.1333

SUSSMAN MIDDLE SCHOOL (Continued) **S103626770**

APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: Arsenic, Lead, Aldrin, Chlordane, DDD, DDE, DDT, Dieldrin, Endosulfan, Endrin, HCH (alpha, HCH (beta, HCH (gamma) Lindane, HCH-technical, Heptachlor, Heptachlor epoxide, Mirex, Toxaphene
Confirmed COC: 30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO, 30013-NO, 30309-NO, 30313-NO, 30314-NO, 30315-NO, 30316-NO, 30207-NO, 30400-NO, 30261-NO, 30043-NO, 30308-NO, 30023-NO
Potential Description: SOIL
Alias Name: DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: DOWNEY USD-SUSSMAN MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: SUSSMAN MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: 304432
Alias Type: Project Code (Site Code)
Alias Name: 19820107
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/27/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/08/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DOWNEY	S103878784	STONEWOOD CENTER	FIRESTONE	90241	SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/15/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/15/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/20/2016
Date Data Arrived at EDR: 09/21/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 51

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/04/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 10/20/2016
Number of Days to Update: 23

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 87
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/26/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 08/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/23/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/01/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 65

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 52

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 42

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 11/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/10/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/11/2016
Date Data Arrived at EDR: 07/13/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/15/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 59

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 10/21/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 23

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/10/2016
Number of Days to Update: 47

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 11/01/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 19

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/11/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List
Cupa facility list.

Date of Government Version: 10/24/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/04/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 71

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 26

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 09/08/2016
Date Data Arrived at EDR: 09/09/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 35

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 07/19/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 78
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/18/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 08/29/2016
Date Data Arrived at EDR: 08/31/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 53

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/09/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 63
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 81
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 21
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 45
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 07/06/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 43
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/21/2016
Date Data Arrived at EDR: 09/22/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 26
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 60

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/15/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 19

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 09/27/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 55

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2016
Date Data Arrived at EDR: 07/05/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 44

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 16

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 08/12/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 49

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/14/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 67

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 27

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 48

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 11/14/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/05/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 61

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/03/2016
Date Made Active in Reports: 09/09/2016
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DOWNEY INDUSTRIAL CENTER
9300 HALL RD ET AL
DOWNEY, CA 90241

TARGET PROPERTY COORDINATES

Latitude (North):	33.929316 - 33° 55' 45.54''
Longitude (West):	118.119358 - 118° 7' 9.69''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	396539.3
UTM Y (Meters):	3754688.8
Elevation:	110 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5633777 WHITTIER, CA
Version Date:	2012
West Map:	5633765 SOUTH GATE, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

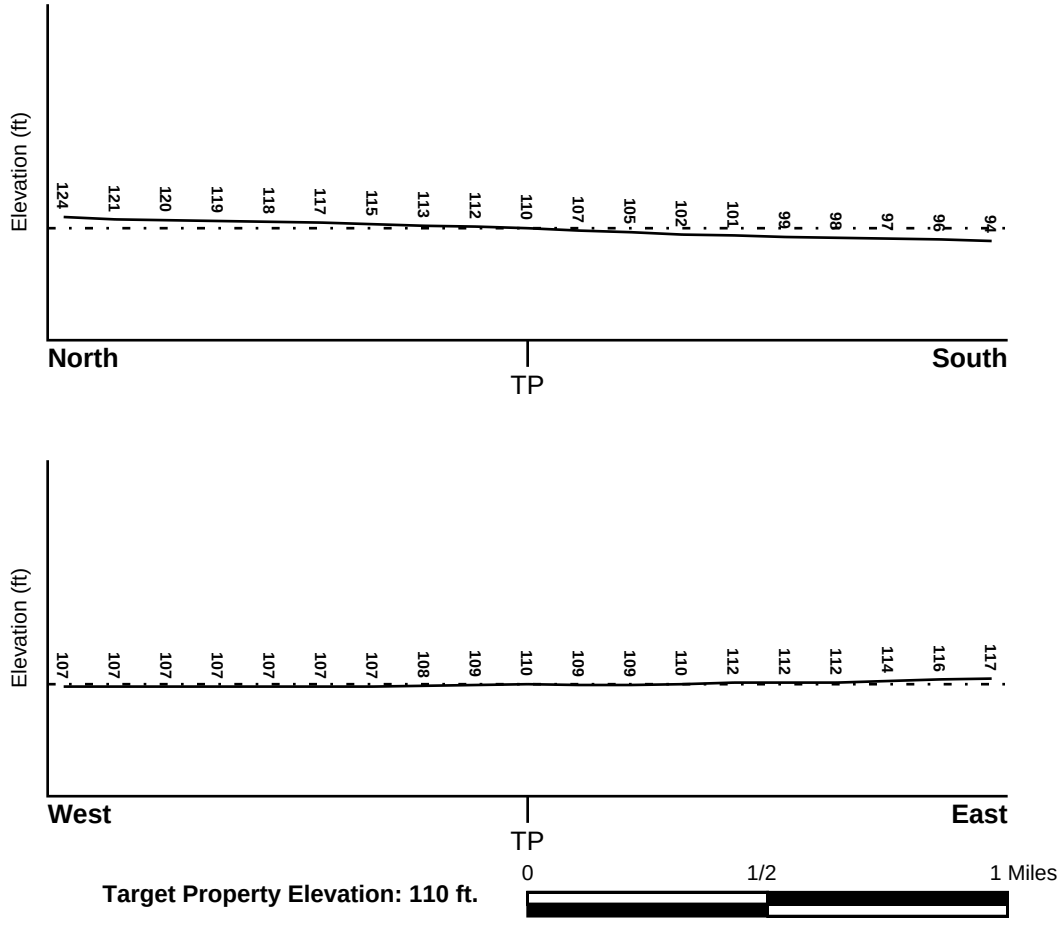
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1840F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1810F	FEMA FIRM Flood data
06037C1830F	FEMA FIRM Flood data
06037C1820F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WHITTIER	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
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

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000139064	1/4 - 1/2 Mile SSE
3	USGS40000139161	1/2 - 1 Mile North
A5	USGS40000139157	1/2 - 1 Mile NE
10	USGS40000139019	1/2 - 1 Mile SE
C12	USGS40000139100	1/2 - 1 Mile East
C13	USGS40000139101	1/2 - 1 Mile East
C14	USGS40000139099	1/2 - 1 Mile East
C15	USGS40000139096	1/2 - 1 Mile East
C16	USGS40000139097	1/2 - 1 Mile East
C17	USGS40000139098	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	3948	1/4 - 1/2 Mile SE
A4	3916	1/2 - 1 Mile NE
6	3919	1/2 - 1 Mile North
B7	3960	1/2 - 1 Mile South
B8	3961	1/2 - 1 Mile South
B9	3964	1/2 - 1 Mile South
11	3946	1/2 - 1 Mile WNW
18	3949	1/2 - 1 Mile SE
19	3920	1/2 - 1 Mile WNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

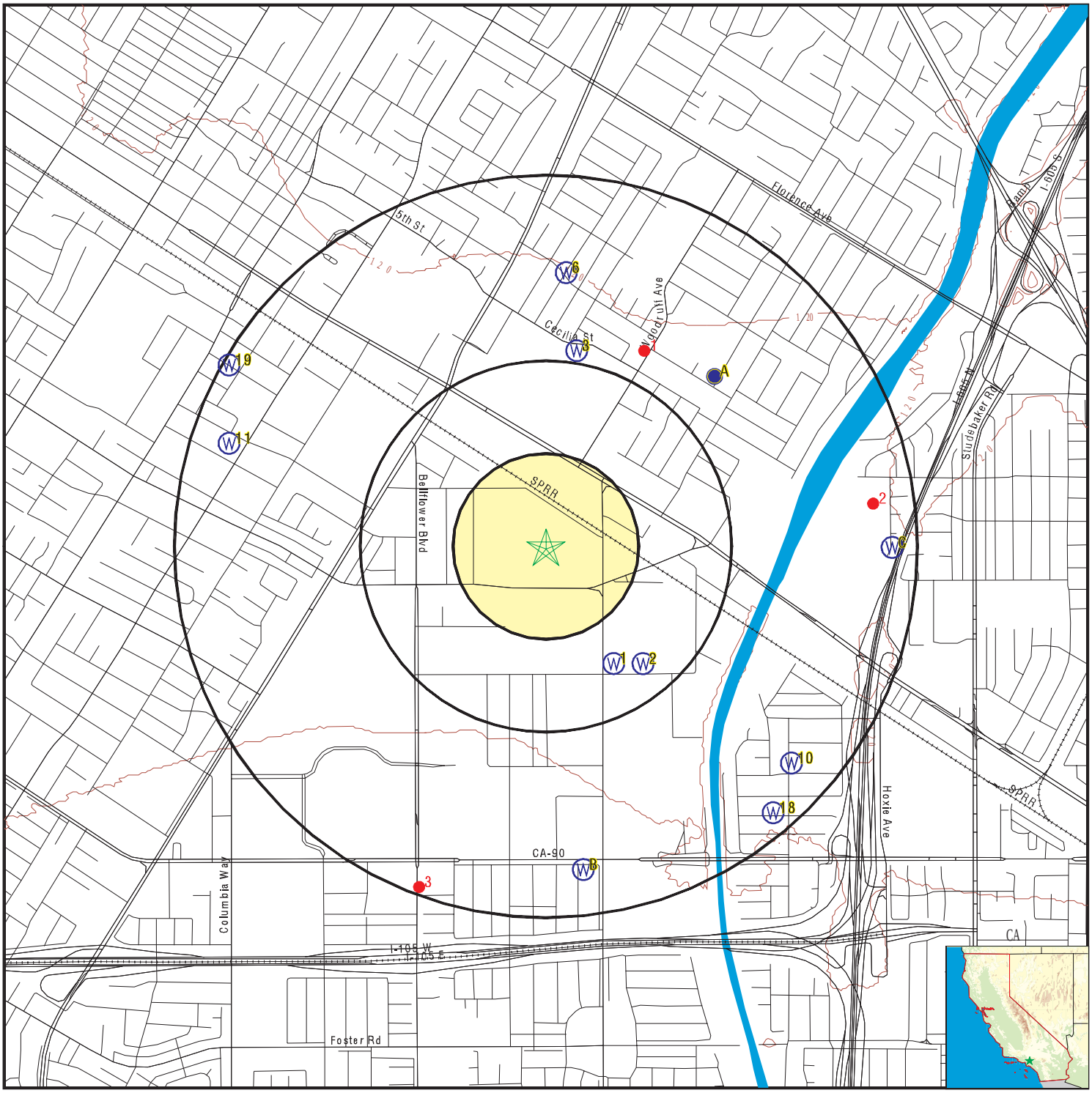
MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000205158	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	CAOG11000204569	1/2 - 1 Mile East
3	CAOG11000204628	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 4793830.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Downey Industrial Center	CLIENT:	AES Due Diligence, Inc
ADDRESS:	9300 Hall Rd Et AL Downey CA 90241	CONTACT:	Kathi Johnson
		INQUIRY #:	4793830.2s
LAT/LONG:	33.929316 / 118.119358	DATE:	December 01, 2016 6:30 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE **FED USGS** **USGS40000139064**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335529118065501		
Monloc name:	003S012W11E001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9247366
Longitude:	-118.116179	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	544
Welldepth units:	ft	Wellholedepth:	544
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

2
SE **CA WELLS** **3948**
1/4 - 1/2 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-11E01 S	User ID:	4TH
FRDS Number:	1910034025	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335529.0 1180650.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 24 (OLD PWC WELL 08B)		
System Number:	1910034		
System Name:	DOWNEY - CITY, WATER DEPT.		
Organization That Operates System:			
	9252 Stewart & Gray Road		
	Downey, CA 90241		
Pop Served:	91000	Connections:	23000
Area Served:	DOWNEY		
Sample Collected:	21-FEB-13	Findings:	530. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	21-FEB-13	Findings:	0.5
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	21-FEB-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAR-15	Findings:	1.41 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAR-15	Findings:	1.65 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.16 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.45 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-AUG-15	Findings:	1.73 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-AUG-15	Findings:	1.85 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-DEC-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-DEC-15	Findings:	1.83 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-FEB-16	Findings:	67.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	23-FEB-16	Findings:	790. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	23-FEB-16	Findings:	7.76
Chemical:	PH, LABORATORY		
Sample Collected:	23-FEB-16	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	23-FEB-16	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	23-FEB-16	Findings:	2.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	23-FEB-16	Findings:	260. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	23-FEB-16	Findings:	78. MG/L
Chemical:	CALCIUM		
Sample Collected:	23-FEB-16	Findings:	17. MG/L
Chemical:	MAGNESIUM		

Sample Collected:	23-FEB-16	Findings:	61. MG/L
Chemical:	SODIUM		
Sample Collected:	23-FEB-16	Findings:	4.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	23-FEB-16	Findings:	69. MG/L
Chemical:	CHLORIDE		
Sample Collected:	23-FEB-16	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	23-FEB-16	Findings:	0.35 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	23-FEB-16	Findings:	530. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	23-FEB-16	Findings:	0.4
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	23-FEB-16	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	23-FEB-16	Findings:	2.5 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-FEB-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-NOV-11	Findings:	1.9 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-FEB-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	16.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	21-FEB-13	Findings:	800. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-FEB-13	Findings:	7.9
Chemical:	PH, FIELD		
Sample Collected:	21-FEB-13	Findings:	7.47
Chemical:	PH, LABORATORY		
Sample Collected:	21-FEB-13	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-FEB-13	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	84. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-FEB-13	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-FEB-13	Findings:	63. MG/L
Chemical:	SODIUM		

Sample Collected:	21-FEB-13	Findings:	4.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-FEB-13	Findings:	78. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-FEB-13	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	21-FEB-13	Findings:	0.36 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-FEB-13	Findings:	2.1 UG/L
Chemical:	ARSENIC		

3
North **FED USGS** **USGS40000139161**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335612118070101		
Monloc name:	003S012W03J001S		
Monloc type:	Well		
Monloc desc:	LA WATER REPLENISHMENT DIST GPS LAT-LONG		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9369642
Longitude:	-118.1179099	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	116
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19540321	Welldepth:	866
Welldepth units:	ft	Wellholedepth:	866
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A4
NE **CA WELLS** **3916**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	03S/12W-02L01 S	User ID:	4TH
FRDS Number:	1910034017	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335610.0 1180639.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 15 (OLD WELL 06)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 1910034
System Name: DOWNEY - CITY, WATER DEPT.
Organization That Operates System:
9252 Stewart & Gray Road
Downey, CA 90241
Pop Served: 91000 Connections: 23000
Area Served: DOWNEY

Sample Collected:	09-FEB-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-NOV-11	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-FEB-12	Findings:	16.6 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	22-FEB-12	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	22-FEB-12	Findings:	7.6
Chemical:	PH, FIELD		
Sample Collected:	22-FEB-12	Findings:	7.68
Chemical:	PH, LABORATORY		
Sample Collected:	22-FEB-12	Findings:	150. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	22-FEB-12	Findings:	250. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	71. MG/L
Chemical:	CALCIUM		
Sample Collected:	22-FEB-12	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	22-FEB-12	Findings:	65. MG/L
Chemical:	SODIUM		
Sample Collected:	22-FEB-12	Findings:	4.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	22-FEB-12	Findings:	78. MG/L
Chemical:	CHLORIDE		
Sample Collected:	22-FEB-12	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	22-FEB-12	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	22-FEB-12	Findings:	2.7 UG/L
Chemical:	ARSENIC		
Sample Collected:	22-FEB-12	Findings:	510. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	22-FEB-12	Findings:	0.11
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		

Sample Collected:	22-FEB-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	21-FEB-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-FEB-15	Findings:	810. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12-FEB-15	Findings:	7.43
Chemical:	PH, LABORATORY		
Sample Collected:	12-FEB-15	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	12-FEB-15	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12-FEB-15	Findings:	250. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	12-FEB-15	Findings:	72. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-FEB-15	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-FEB-15	Findings:	57. MG/L
Chemical:	SODIUM		
Sample Collected:	12-FEB-15	Findings:	3.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12-FEB-15	Findings:	83. MG/L
Chemical:	CHLORIDE		
Sample Collected:	12-FEB-15	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	12-FEB-15	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-FEB-15	Findings:	2.3 UG/L
Chemical:	ARSENIC		
Sample Collected:	12-FEB-15	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-FEB-15	Findings:	1.2
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	12-FEB-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-FEB-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	24-MAR-15	Findings:	1.68 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

Sample Collected:	24-MAR-15	Findings:	2.09 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.39 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.59 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-AUG-15	Findings:	1.55 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-AUG-15	Findings:	1.8 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-DEC-15	Findings:	1.48 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-DEC-15	Findings:	1.85 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-FEB-16	Findings:	2.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	23-FEB-16	Findings:	2.7 MG/L
Chemical:	NITRATE + NITRITE (AS N)		

A5
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000139157**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335609118064001		
Monloc name:	003S012W02L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9358056
Longitude:	-118.1111944	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510619	Welldepth:	840
Welldepth units:	ft	Wellholedepth:	860
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1951-07	86	

Note: Other conditions existed that would affect the measured water level.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

6
North
1/2 - 1 Mile
Higher | **CA WELLS** | **3919**

Water System Information:

Prime Station Code:	03S/12W-03J01 S	User ID:	4TH
FRDS Number:	1910034018	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335624.0 1180703.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 16 (OLD WELL 10)		
System Number:	1910034		
System Name:	DOWNEY - CITY, WATER DEPT.		
Organization That Operates System:			
	9252 Stewart & Gray Road		
	Downey, CA 90241		
Pop Served:	91000	Connections:	23000
Area Served:	DOWNEY		
Sample Collected:	22-FEB-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	20-MAR-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAR-15	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-MAR-15	Findings:	7.51
Chemical:	PH, LABORATORY		
Sample Collected:	10-MAR-15	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	10-MAR-15	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-MAR-15	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	10-MAR-15	Findings:	83. MG/L
Chemical:	CALCIUM		
Sample Collected:	10-MAR-15	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-MAR-15	Findings:	70. MG/L
Chemical:	SODIUM		
Sample Collected:	10-MAR-15	Findings:	4.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-MAR-15	Findings:	87. MG/L
Chemical:	CHLORIDE		

Sample Collected:	10-MAR-15	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	10-MAR-15	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-MAR-15	Findings:	2.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	10-MAR-15	Findings:	530. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-MAR-15	Findings:	0.86
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	10-MAR-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAR-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-MAR-15	Findings:	3000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-MAR-15	Findings:	2.5 UNITS
Chemical:	COLOR		
Sample Collected:	24-MAR-15	Findings:	1.34 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAR-15	Findings:	2.25 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.15 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.62 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-AUG-15	Findings:	1.38 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-AUG-15	Findings:	1.94 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-DEC-15	Findings:	1.97 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-DEC-15	Findings:	2.01 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-FEB-16	Findings:	2.4 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	23-FEB-16	Findings:	2.4 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-FEB-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-12	Findings:	17.2 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	22-FEB-12	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		

Sample Collected:	22-FEB-12	Findings:	7.7
Chemical:	PH, FIELD		
Sample Collected:	22-FEB-12	Findings:	7.74
Chemical:	PH, LABORATORY		
Sample Collected:	22-FEB-12	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	22-FEB-12	Findings:	240. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	66. MG/L
Chemical:	CALCIUM		
Sample Collected:	22-FEB-12	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	22-FEB-12	Findings:	64. MG/L
Chemical:	SODIUM		
Sample Collected:	22-FEB-12	Findings:	4.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	22-FEB-12	Findings:	84. MG/L
Chemical:	CHLORIDE		
Sample Collected:	22-FEB-12	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	22-FEB-12	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	22-FEB-12	Findings:	2.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	22-FEB-12	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	22-FEB-12	Findings:	0.21
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	22-FEB-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		

B7
South **CA WELLS** **3960**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-14F01 S	User ID:	4TH
FRDS Number:	1910211016	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	335500.0 1180700.0	Precision:	Undefined
Source Name:	WELL 28-B - STANDBY		
System Number:	1910211		
System Name:	PARK WC - BELLFLOWER-NORWALK		
Organization That Operates System:			
	PO BOX 7002 (9750 WASHBURN RD)		
	DOWNEY, CA 90241		
Pop Served:	70000	Connections:	15837
Area Served:	BELLFLOWER-NORWALK		

Sample Collected:	26-SEP-12	Findings:	0.12 UG/L
Chemical:	PROMETON		
Sample Collected:	09-OCT-12	Findings:	4.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-13	Findings:	5.4 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-APR-13	Findings:	2.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-APR-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-13	Findings:	3.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-APR-13	Findings:	0.542 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	25-APR-13	Findings:	0.254 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	25-APR-13	Findings:	0.22 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	25-APR-13	Findings:	0.439 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	25-APR-13	Findings:	0.258 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	25-APR-13	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-MAY-13	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-OCT-13	Findings:	3.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-14	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-14	Findings:	3.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-JUN-14	Findings:	0.35 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	16-OCT-14	Findings:	3.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	07-MAY-15	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07-MAY-15	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	07-MAY-15	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	07-MAY-15	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		

Sample Collected:	07-MAY-15	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	07-MAY-15	Findings:	85.4 MG/L
Chemical:	CALCIUM		
Sample Collected:	07-MAY-15	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07-MAY-15	Findings:	65. MG/L
Chemical:	SODIUM		
Sample Collected:	07-MAY-15	Findings:	4.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07-MAY-15	Findings:	77. MG/L
Chemical:	CHLORIDE		
Sample Collected:	07-MAY-15	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	07-MAY-15	Findings:	4.7 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07-MAY-15	Findings:	2.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	07-MAY-15	Findings:	7.9e-002 MG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	07-MAY-15	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-MAY-15	Findings:	1.03
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07-MAY-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-15	Findings:	12.4
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	07-MAY-15	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	07-MAY-15	Findings:	3.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-JUN-15	Findings:	0.31 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-APR-11	Findings:	2.1 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-APR-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-APR-11	Findings:	3.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	20-OCT-11	Findings:	3.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	12-APR-12	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		

Sample Collected:	12-APR-12	Findings:	7.59
Chemical:	PH, LABORATORY		
Sample Collected:	12-APR-12	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	12-APR-12	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12-APR-12	Findings:	290. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	12-APR-12	Findings:	87. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-APR-12	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-APR-12	Findings:	64. MG/L
Chemical:	SODIUM		
Sample Collected:	12-APR-12	Findings:	4.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12-APR-12	Findings:	76. MG/L
Chemical:	CHLORIDE		
Sample Collected:	12-APR-12	Findings:	130. MG/L
Chemical:	SULFATE		
Sample Collected:	12-APR-12	Findings:	4.4 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-APR-12	Findings:	2.1 UG/L
Chemical:	ARSENIC		
Sample Collected:	12-APR-12	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-APR-12	Findings:	0.822
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12-APR-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-APR-12	Findings:	12.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	12-APR-12	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-APR-12	Findings:	3.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	06-JUN-12	Findings:	0.46 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

B8
South
1/2 - 1 Mile
Lower

CA WELLS **3961**

Water System Information:

Prime Station Code:	03S/12W-14F02 S	User ID:	4TH
FRDS Number:	1910018012	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	335500.0 1180700.0	Precision:	Undefined
Source Name:	WELL 14 - STANDBY		

System Number: 1910018
System Name: PEERLESS WC
Organization That Operates System:
P O BOX 117
BELLFLOWER 90706
Pop Served: 9000 Connections: 2005
Area Served: BELLFLOWER

B9
South **CA WELLS** **3964**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-15A03 S	User ID:	4TH
FRDS Number:	1910211015	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	335500.0 1180700.0	Precision:	Undefined

Source Name: WELL 28-A - DESTROYED
System Number: 1910211
System Name: PARK WC - BELLFLOWER-NORWALK
Organization That Operates System:
PO BOX 7002 (9750 WASHBURN RD)
DOWNEY, CA 90241
Pop Served: 70000 Connections: 15837
Area Served: BELLFLOWER-NORWALK

10
SE **FED USGS** **USGS40000139019**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335515118062501		
Monloc name:	003S012W11K006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9208477
Longitude:	-118.1078454	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	500
Welldepth units:	ft	Wellholedepth:	527
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

11
WNW
1/2 - 1 Mile
Higher | **CA WELLS** | **3946**

Water System Information:

Prime Station Code:	03S/12W-10C03 S	User ID:	4TH
FRDS Number:	1910211009	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	335600.0 1180800.0	Precision:	Undefined
Source Name:	WELL 08-A - DESTROYED		
System Number:	1910211		
System Name:	PARK WC - BELLFLOWER-NORWALK		
Organization That Operates System:			
	PO BOX 7002 (9750 WASHBURN RD)		
	DOWNEY, CA 90241		
Pop Served:	70000	Connections:	15837
Area Served:	BELLFLOWER-NORWALK		

C12
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000139100**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061105		
Monloc name:	003S012W11A011S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	500
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C13
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000139101**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061106		
Monloc name:	003S012W11A012S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	256
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C14
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000139099**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061104		
Monloc name:	003S012W11A010S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	820
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C15
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000139096**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061101		
Monloc name:	003S012W11A007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	1480
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C16
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000139097**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061102		
Monloc name:	003S012W11A008S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	1280
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C17
East **FED USGS** **USGS40000139098**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061103		
Monloc name:	003S012W11A009S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	980
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

18
SE **CA WELLS** **3949**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-11K06 S	User ID:	4TH
FRDS Number:	1910211026	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335508.0 1180628.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 41-A		
System Number:	1910211		
System Name:	PARK WC - BELLFLOWER-NORWALK		
Organization That Operates System:			
	PO BOX 7002 (9750 WASHBURN RD)		
	DOWNEY, CA 90241		
Pop Served:	70000	Connections:	15837
Area Served:	BELLFLOWER-NORWALK		

Sample Collected:	19-MAY-16	Findings:	0.341 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	19-MAY-16	Findings:	0.525 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	19-MAY-16	Findings:	0.47 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	19-MAY-16	Findings:	0.253 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	19-MAY-16	Findings:	2.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	19-MAY-16	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	19-MAY-16	Findings:	0.163 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-MAY-16	Findings:	1.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-MAY-16	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	19-MAY-16	Findings:	4.e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-APR-11	Findings:	660. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-APR-11	Findings:	7.69
Chemical:	PH, LABORATORY		
Sample Collected:	21-APR-11	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	21-APR-11	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-APR-11	Findings:	230. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	21-APR-11	Findings:	68. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-APR-11	Findings:	13. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-APR-11	Findings:	62. MG/L
Chemical:	SODIUM		
Sample Collected:	21-APR-11	Findings:	3.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-APR-11	Findings:	79. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-APR-11	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	21-APR-11	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

Sample Collected:	21-APR-11	Findings:	490. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-APR-11	Findings:	0.792
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	21-APR-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-APR-11	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	21-APR-11	Findings:	12.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	21-APR-11	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	21-APR-11	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	20-OCT-11	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	12-APR-12	Findings:	0.39 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-APR-12	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-APR-12	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	09-OCT-12	Findings:	1.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-13	Findings:	0.37 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-APR-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-13	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-14	Findings:	790. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	17-APR-14	Findings:	7.46
Chemical:	PH, LABORATORY		
Sample Collected:	17-APR-14	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	17-APR-14	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	17-APR-14	Findings:	250. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	17-APR-14	Findings:	76.4 MG/L
Chemical:	CALCIUM		
Sample Collected:	17-APR-14	Findings:	14.9 MG/L
Chemical:	MAGNESIUM		

Sample Collected:	17-APR-14	Findings:	68. MG/L
Chemical:	SODIUM		
Sample Collected:	17-APR-14	Findings:	4.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	17-APR-14	Findings:	85. MG/L
Chemical:	CHLORIDE		
Sample Collected:	17-APR-14	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	17-APR-14	Findings:	0.3 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-APR-14	Findings:	480. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-APR-14	Findings:	0.599
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	17-APR-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-14	Findings:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	17-APR-14	Findings:	2700. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	17-APR-14	Findings:	1.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	13-NOV-14	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	09-APR-15	Findings:	0.27 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-APR-15	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-15	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		

19
WNW
1/2 - 1 Mile
Higher

CA WELLS **3920**

Water System Information:

Prime Station Code:	03S/12W-03M01 S	User ID:	4TH
FRDS Number:	1910034021	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335611.0 1180800.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 19 (OLD WELL 01)		
System Number:	1910034		
System Name:	DOWNEY - CITY, WATER DEPT.		
Organization That Operates System:			
	9252 Stewart & Gray Road		
	Downey, CA 90241		
Pop Served:	91000	Connections:	23000
Area Served:	DOWNEY		

Sample Collected:	17-FEB-11	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-NOV-11	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-FEB-12	Findings:	9.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	15.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	21-FEB-13	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-FEB-13	Findings:	7.8
Chemical:	PH, FIELD		
Sample Collected:	21-FEB-13	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	21-FEB-13	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-FEB-13	Findings:	310. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	94. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-FEB-13	Findings:	19. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-FEB-13	Findings:	64. MG/L
Chemical:	SODIUM		
Sample Collected:	21-FEB-13	Findings:	4.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-FEB-13	Findings:	82. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-FEB-13	Findings:	140. MG/L
Chemical:	SULFATE		
Sample Collected:	21-FEB-13	Findings:	0.39 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-FEB-13	Findings:	2.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	21-FEB-13	Findings:	570. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-FEB-13	Findings:	0.48
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	21-FEB-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	0.52 NTU
Chemical:	TURBIDITY, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-FEB-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-FEB-14	Findings:	9.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-15	Findings:	8.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAR-15	Findings:	1.81 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAR-15	Findings:	2.13 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.42 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.56 PCI/L
Chemical:	GROSS ALPHA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
NNE **OIL_GAS** **CAOG11000205158**
1/2 - 1 Mile

District nun:	1	Api number:	03706170
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Union Oil Company of California		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	2
Township:	03S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Downey Community	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205158		

2
East **OIL_GAS** **CAOG11000204569**
1/2 - 1 Mile

District nun:	1	Api number:	03705280
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L. B. Chase Oil Co.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	11
Township:	03S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000204569		

3
SSW **OIL_GAS** **CAOG11000204628**
1/2 - 1 Mile

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

District nun:	1	Api number:	03705362
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Downey Land Co.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	15
Township:	03S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Downey Land Co.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204628		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90241	14	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Downey Industrial Center
9300 Hall Rd Et AL
Downey, CA 90241

Inquiry Number: 4793830.3
November 30, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

11/30/16

Site Name:

Downey Industrial Center
9300 Hall Rd Et AL
Downey, CA 90241
EDR Inquiry # 4793830.3

Client Name:

AES Due Diligence, Inc
9089 Clairemont Mesa Blvd
San Diego, CA 92123
Contact: Kathi Johnson

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AES Due Diligence, Inc were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 0E1D-4EC3-BD3A

PO # NA

Project 16004157

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 0E1D-4EC3-BD3A

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

AES Due Diligence, Inc (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Downey Industrial Center
9300 Hall Rd Et AL
Downey, CA 90241

Inquiry Number: 4793830.5
December 05, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

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.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2010	Haines Criss-Cross Directory	X	X	X	-
2005	Haines Criss-Cross Directory	X	X	X	-
2000	Haines Criss-Cross Directory	X	X	X	-
1995	Haines Criss-Cross Directory	X	X	X	-
1990	Haines Criss-Cross Directory	X	X	X	-
1985	Haines Criss-Cross Directory	X	X	X	-
1980	Haines Criss-Cross Directory	X	X	X	-
1975	Haines Criss-Cross Directory	X	X	X	-
1971	Haines Criss-Cross Directory	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

9300 Hall Rd Et AL
Downey, CA 90241

FINDINGS DETAIL

Target Property research detail.

Hall Rd

9266 Hall Rd

Year	Uses	Source
2010	Baby Heaven	Haines Criss-Cross Directory

9268 Hall Rd

Year	Uses	Source
2010	Mapco Services	Haines Criss-Cross Directory

9300 Hall Rd

Year	Uses	Source
2010	Omni Team Inc	Haines Criss-Cross Directory
	Wok Water Saver Inc	Haines Criss-Cross Directory
2005	Omniteam Inc	Haines Criss-Cross Directory
2000	Intersection Development Corp	Haines Criss-Cross Directory
1995	No Return	Haines Criss-Cross Directory
1990	No Return	Haines Criss-Cross Directory
1985	Boman Ind Gibbs	Haines Criss-Cross Directory
	Boman Industries	Haines Criss-Cross Directory
	C A R Brands Inc	Haines Criss-Cross Directory
	Calif Auto Radio	Haines Criss-Cross Directory
	Gibbs Sound Prodcts	Haines Criss-Cross Directory
	Maniaci Bob	Haines Criss-Cross Directory
	Surplus Store	Haines Criss-Cross Directory
	Western Pacific Pul	Haines Criss-Cross Directory
1980	Boman Industries	Haines Criss-Cross Directory
	C A R Brands Inc	Haines Criss-Cross Directory
	Calif Auto Radio	Haines Criss-Cross Directory
	Gibbs Sound Prodcts	Haines Criss-Cross Directory
	Maniaci Bob	Haines Criss-Cross Directory

FINDINGS

Year	Uses	Source
1975	Boman Inds Gibbs	Haines Criss-Cross Directory
	Boman Industries	Haines Criss-Cross Directory
	C A R Brands Inc	Haines Criss-Cross Directory
	Cal Auto Radio Inc	Haines Criss-Cross Directory
	Calif Auto Radio	Haines Criss-Cross Directory
	Gibbs Sound Prodcts	Haines Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Hall Rd

9264 Hall Rd

Year	Uses	Source
2010	Kromatique Inc	Haines Criss-Cross Directory
	Shelton Food & Beverage	Haines Criss-Cross Directory

9350 Hall Rd

Year	Uses	Source
2005	No Return	Haines Criss-Cross Directory
2000	Westrn Pacific Pulp & Paper Inc	Haines Criss-Cross Directory
1995	Westrn Pac Plp & Ppr	Haines Criss-Cross Directory
1990	Westrn Pac Pulp & Ppr	Haines Criss-Cross Directory
1985	Westrn Pacific Pul	Haines Criss-Cross Directory

9380 Hall Rd

Year	Uses	Source
2005	No Return	Haines Criss-Cross Directory
2000	No Return	Haines Criss-Cross Directory
1995	No Return	Haines Criss-Cross Directory
1990	No Return	Haines Criss-Cross Directory
1985	No Return	Haines Criss-Cross Directory
1980	No Return	Haines Criss-Cross Directory
1975	No Return	Haines Criss-Cross Directory

9400 Hall Rd

Year	Uses	Source
2010	Hudd Distributaion Services Inc	Haines Criss-Cross Directory
	Maersk Distribution	Haines Criss-Cross Directory
2005	Hudd Distributaion Services Inc	Haines Criss-Cross Directory
2000	Hudd Distributaion Services Inc	Haines Criss-Cross Directory
1995	Hudd Distb Sv	Haines Criss-Cross Directory
	Hudd Distbn Sv Inc	Haines Criss-Cross Directory
1990	Hudd Distb Sv	Haines Criss-Cross Directory
	Hudd Distr Serv Inc	Haines Criss-Cross Directory
1985	Hudd Distr Serv Inc	Haines Criss-Cross Directory

FINDINGS

Stewart And Gary Rd

9301 Stewart And Gary Rd

Year	*Uses*	*Source*
2010	J F Duncan Dry Indstrs Inc Ofc	Haines Criss-Cross Directory
2005	J F Duncan Duray Indstry Inc	Haines Criss-Cross Directory
2000	J F Duncan Duray Indstrs Inc	Haines Criss-Cross Directory
	Omni Temp Refrig	Haines Criss-Cross Directory
1995	Bridgewater & Assoc	Haines Criss-Cross Directory
	Duray Inc	Haines Criss-Cross Directory
	Omni Temp Refrig	Haines Criss-Cross Directory
1990	Bridgewater & Assocts	Haines Criss-Cross Directory
	Duray Inc	Haines Criss-Cross Directory
	Omni Temp Refrig	Haines Criss-Cross Directory
1985	Duray Inc	Haines Criss-Cross Directory
	Imperial Instlltn	Haines Criss-Cross Directory
1980	Duray Inc	Haines Criss-Cross Directory
	Imperial Instlltn	Haines Criss-Cross Directory
1975	Minibus Inc	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
9300 Hall Rd Et AL	2005, 2000, 1995, 1990, 1985, 1980, 1975, 1971

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
9264 Hall Rd	2005, 2000, 1995, 1990, 1985, 1980, 1975, 1971
9301 Stewart And Gary Rd	1971
9350 Hall Rd	2010, 1980, 1975, 1971
9380 Hall Rd	1971
9400 Hall Rd	1980, 1975, 1971

Downey Industrial Center
9300 Hall Rd Et AL
Downey, CA 90241

Inquiry Number: 4793830.8s
December 6, 2016

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	**ES1**
Primary Map	**2**
Secondary Map	**3**
Aerial Photography	**4**
Map Findings	**5**
Record Sources and Currency	**GR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

The EDR Vapor Encroachment Worksheet enables EDR's customers to make certain online modifications that effects maps, text and calculations contained in this Report. As a result, maps, text and calculations contained in this Report may have been so modified. EDR has not taken any action to verify any such modifications, and this report and the findings set forth herein must be read in light of this fact. Environmental Data Resources shall not be responsible for any customer's decision to include or not include in any final report any records determined to be within the relevant minimum search distances.

This report contains information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANYSUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES.ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this report "AS IS". Any analyses, estimates, ratings, or risk codes provided in this report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can produce information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

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 the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Maximum Search Distance*	Summary: property	1/10	1/10 - 1/3
Federal NPL	0.333	0	0	0
Federal CERCLIS	0.333	0	0	0
Federal RCRA CORRACTS facilities list	0.333	0	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	0.333	0	0	0
Federal ERNS list	property	0	-	-
State and tribal - equivalent NPL	0.333	0	0	0
State and tribal - equivalent CERCLIS	0.333	0	1	0
State and tribal landfill / solid waste disposal	0.333	0	1	0
State and tribal leaking storage tank lists	0.333	0	4	0
State and tribal registered storage tank lists	property	1	-	-
State and tribal institutional control / engineering control registries	not searched	-	-	-
State and tribal voluntary cleanup sites	0.333	0	0	0
State and tribal Brownfields sites	0.333	0	0	0
Other Standard Environmental Records	0.333	3	3	0

HISTORICAL USE RECORDS				
Former manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.125	0	2	0
Historical Dry Cleaners	0.125	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

*Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

DOWNEY INDUSTRIAL CENTER
9300 HALL RD ET AL
DOWNEY, CA 90241

COORDINATES

Latitude (North):	33.929316 - 33° 55′ 45.542908″
Longitude (West):	118.119358 - 118° 7′ 9.675293″
Elevation:	110 ft. above sea level

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records.

Site	Database(s)
AEROJET ORDNANCE CO 9300 E HALL RD DOWNEY, CA	SWEEPS UST Status: A Comp Number: 10632 Tank Status:
OMNI TEAM INC 9300 HALL RD DOWNEY, CA 90241	HAZNET GEPAID: CAC002571513
INTERSECTION DEVELOPMENT CORP 9300 E HALL RD DOWNEY, CA 90241	RCRA NonGen / NLR EPA ID:: CAR000036079 ECHO FINDS Registry ID:: 110002920858 HAZNET GEPAID: CAR000036079
AEROJET ORDNANCE CO 9300 HALL RD DOWNEY, CA 90241	LOS ANGELES CO. HMS Facility ID: 010688-010632 Facility Status: REM

EXECUTIVE SUMMARY

PHYSICAL SETTING INFORMATION

Flood Zone:	Available
NWI Wetlands:	Available

AQUIFLOW®

Search Radius: 0.333 Mile.

No Aquiflow sites reported.

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:	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

Soil Layer Information

	Boundary			Classification			
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**	**Permeability Rate (in/hr)**	**Soil Reaction (pH)**
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	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

EXECUTIVE SUMMARY

SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
AEROJET ORDNANCE CO SWEEPS UST: State and tribal registered storage tank lists	9300 E HALL RD	Property	▲ A1	11
OMNI TEAM INC HAZNET: Other Standard Environmental Records	9300 HALL RD	Property	▲ A2	12
INTERSECTION DEVELOPMENT CORP RCRA NonGen / NLR: Other Standard Environmental Records ECHO: Other Standard Environmental Records FINDS: Other Standard Environmental Records HAZNET: Other Standard Environmental Records	9300 E HALL RD	Property	▲ A3	13
AEROJET ORDNANCE CO LOS ANGELES CO. HMS: Other Standard Environmental Records	9300 HALL RD	Property	▲ A4	14
ROSECRANS AVE. / WOODRUFFAVE. DUMP SWF/LF: State and tribal landfill / solid waste disposal	LINDALE AVE/CORNUTA AVE/IBBETSON AVE.	<1/10 SSE	▼ A5	15
WESTERN PACIFIC PULP & PAPER SWEEPS UST: State and tribal registered storage tank lists LUST: State and tribal leaking storage tank lists HIST CORTESE: Other Standard Environmental Records HAZNET: Other Standard Environmental Records	9350 HALL RD	<1/10 NE	▲ 6	16
HOLM INDUSTRIES LUST: State and tribal leaking storage tank lists	9368 STEWART AND GRAY RD	<1/10 S	▼ 7	17
OLIN ORDINANCE LOS ANGELES CO. HMS: Other Standard Environmental Records SLIC: State and tribal leaking storage tank lists ENVIROSTOR: State and tribal - equivalent CERCLIS	9236 HALL RD	<1/10 WNW	▲ B8	18
PRIMEX TECHNOLOGIES UST: State and tribal registered storage tank lists SLIC: State and tribal leaking storage tank lists	9236 HALL RD	<1/10 WNW	▲ B9	19
REED GRAIN & MILLING CO HAZNET: Other Standard Environmental Records DRYCLEANERS: Other Standard Environmental Records	11814 WOODRUFF AVE	<1/10 ESE	▼ C12	22

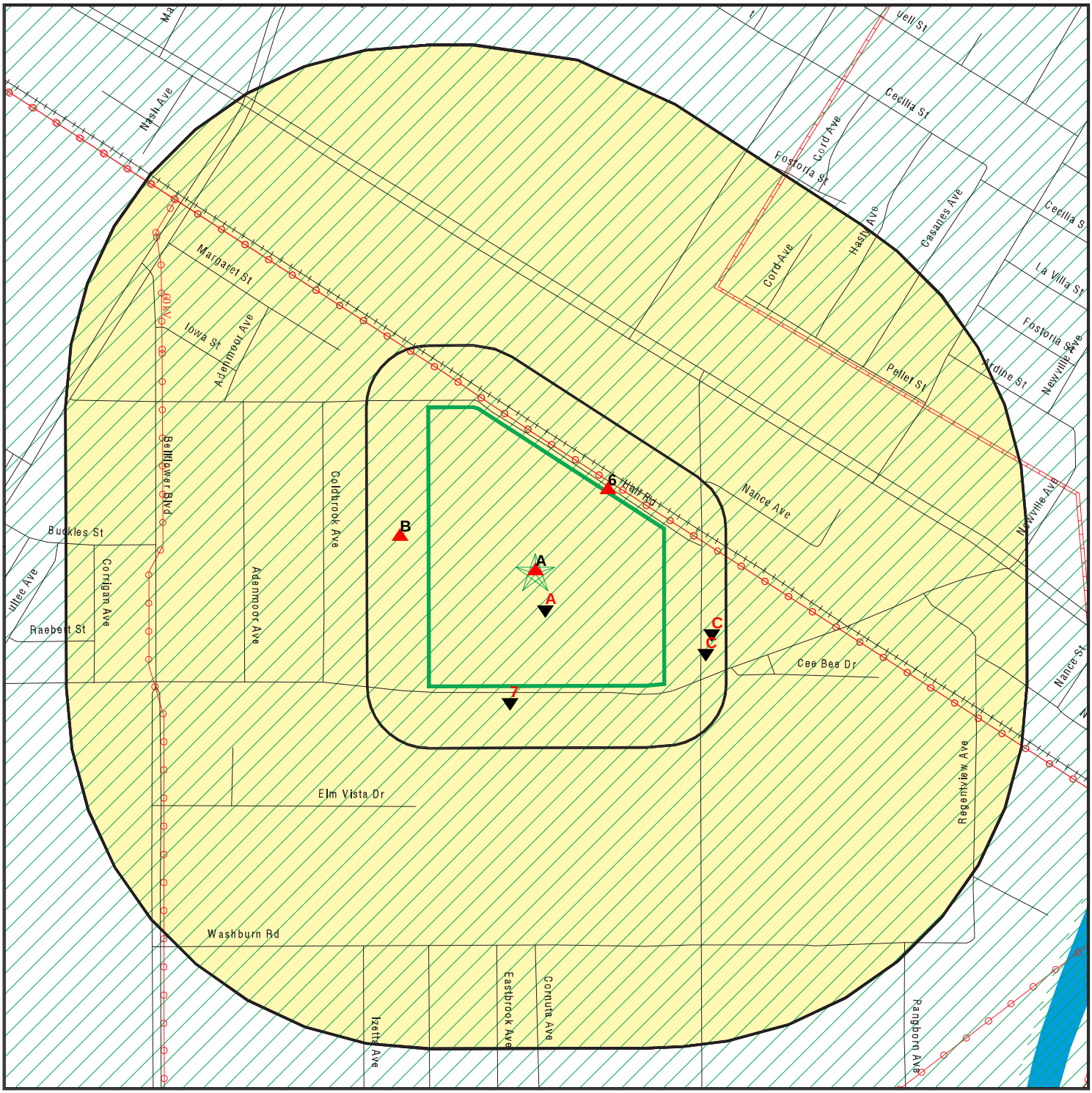
HISTORICAL USE RECORDS

Name	Address	Dist/Dir	Map ID	Page
11860 WOODRUFF AVE EDR Hist Auto: Historical Gas Stations	11860 WOODRUFF AVE	<1/10 ESE	▼ C10	20

EXECUTIVE SUMMARY

Name	Address	Dist/Dir	Map ID	Page
11840 WOODRUFF AVE EDR Hist Auto: Historical Gas Stations	11840 WOODRUFF AVE	<1/10 ESE	▼ C11	21

PRIMARY MAP - 4793830.8S



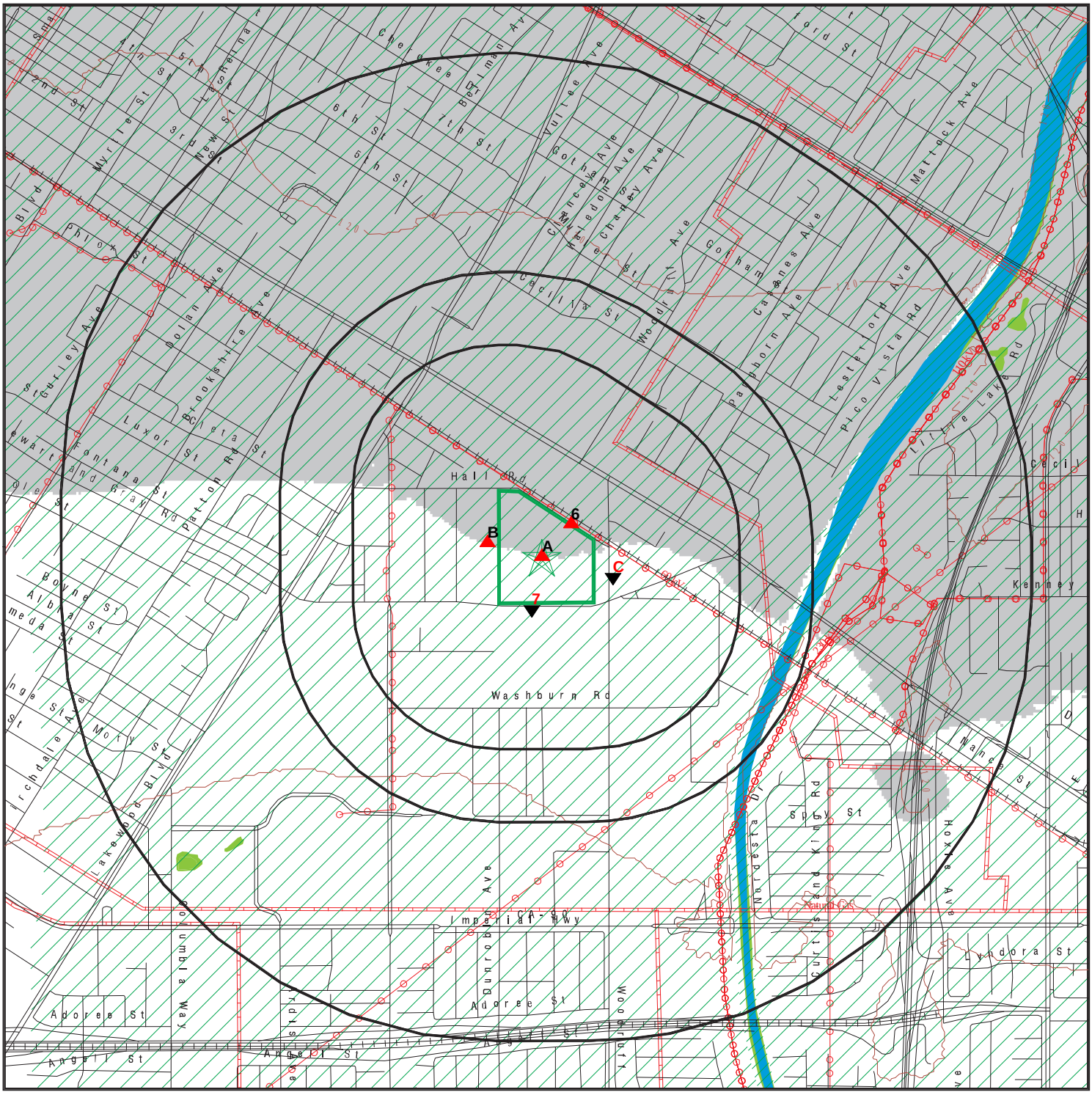
0 300 1/3 1/2 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Areas of Concern

SITE NAME:	Downey Industrial Center	CLIENT:	AES Due Diligence, Inc
ADDRESS:	9300 Hall Rd Et AL Downey CA 90241	CONTACT:	Kathi Johnson
		INQUIRY #:	4793830.8s
LAT/LONG:	33.929316 / 118.119358	DATE:	December 01, 2016 8:37 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

SECONDARY MAP - 4793830.8S



SITE NAME:	Downey Industrial Center	CLIENT:	AES Due Diligence, Inc
ADDRESS:	9300 Hall Rd Et AL Downey CA 90241	CONTACT:	Kathi Johnson
		INQUIRY #:	4793830.8s
LAT/LONG:	33.929316 / 118.119358	DATE:	December 01, 2016 8:36 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

AERIAL PHOTOGRAPHY - 4793830.8s

SITE NAME:	Downey Industrial Center	CLIENT:	AES Due Diligence, Inc
ADDRESS:	9300 Hall Rd Et AL Downey CA 90241	CONTACT:	Kathi Johnson
LAT/LONG:	33.929316 / 118.119358	INQUIRY #:	4793830.8s
		DATE:	December 01, 2016 8:38 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS

LEGEND

FACILITY NAME **FACILITY ADDRESS, CITY, ST, ZIP**		EDR SITE ID NUMBER
▼ MAP ID#	Direction Distance Range (Distance feet / miles) Relative Elevation Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.

Worksheet:

Comments:
Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

AEROJET ORDNANCE CO 9300 E HALL RD, DOWNEY, CA,		S104537182
▲ A1	Target Property 110 ft. Above Sea Level	State and tribal registered storage tank lists

Worksheet:

Impact on Target Property: VEC does not exist
Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

MAP FINDINGS

OMNI TEAM INC 9300 HALL RD, DOWNEY, CA, 90241		S112933674
▲ A2	Target Property 110 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

Impact on Target Property: VEC does not exist

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

MAP FINDINGS

INTERSECTION DEVELOPMENT CORP 9300 E HALL RD, DOWNEY, CA, 90241		1001217515
▲ A3	Target Property 110 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

Impact on Target Property: VEC does not exist

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

MAP FINDINGS

AEROJET ORDNANCE CO 9300 HALL RD, DOWNEY, CA, 90241		S113743800
▲ A4	Target Property 110 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

Impact on Target Property: VEC does not exist

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

ROSECRANS AVE. / WOODRUFFAVE. DUMP LINDALE AVE/CORNUTA AVE/IBBETSON AVE., BELLFLOWER, CA,			S104493080
▼ A5	SSE <1/10	(0 ft. / 0 mi.)	State and tribal landfill / solid waste disposal
	1 ft. Lower Elevation	109 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Downgradient: YES

Hydrogeologically: YES

Topographically: YES

WESTERN PACIFIC PULP & PAPER 9350 HALL RD, DOWNEY, CA, 90241			S101442129
▲ 6	NE <1/10	(9 ft. / 0.002 mi.)	State and tribal leaking storage tank lists State and tribal registered storage tank lists Other Standard Environmental Records
	2 ft. Higher Elevation	112 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

HOLM INDUSTRIES 9368 STEWART AND GRAY RD, DOWNEY, CA, 90242			S108243552
▼ 7	S <1/10	(80 ft. / 0.015 mi.)	State and tribal leaking storage tank lists
	3 ft. Lower Elevation	107 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Groundwater Flow Gradient:

Downgradient: YES

Geological Attributes - Physical Barrier:

Other: YES

OLIN ORDINANCE 9236 HALL RD, DOWNEY, CA, 90241			S102061429
▲ B8	WNW <1/10	(140 ft. / 0.026 mi.)	State and tribal - equivalent CERCLIS State and tribal leaking storage tank lists Other Standard Environmental Records
	Equal Elevation	110 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Crossgradient: YES

PRIMEX TECHNOLOGIES 9236 HALL RD, DOWNEY, CA, 90241			U003777457
▲ B9	WNW <1/10	(140 ft. / 0.026 mi.)	State and tribal leaking storage tank lists State and tribal registered storage tank lists
	Equal Elevation	110 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Crossgradient: YES

MAP FINDINGS

11860 WOODRUFF AVE 11860 WOODRUFF AVE, DOWNEY, CA, 90241			1015175157
▼ C10	ESE <1/10	(200 ft. / 0.038 mi.)	Historical Gas Stations
	3 ft. Lower Elevation	107 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Crossgradient: YES

11840 WOODRUFF AVE 11840 WOODRUFF AVE, DOWNEY, CA, 90241			1015174941
▼ C11	ESE <1/10	(230 ft. / 0.044 mi.)	Historical Gas Stations
	3 ft. Lower Elevation	107 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Crossgradient: YES

REED GRAIN & MILLING CO 11814 WOODRUFF AVE, DOWNEY, CA, 902410000			S112920062
▼ C12	ESE <1/10	(230 ft. / 0.044 mi.)	Other Standard Environmental Records
	3 ft. Lower Elevation	107 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Crossgradient: YES

RECORD SOURCES AND CURRENCY

To maintain currency of the following databases, EDR contacts the appropriate 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

PRP: Potentially Responsible Parties
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Number of Days to Update: 3
Last EDR Contact :11/07/2016
Source: EPA
Telephone: 202-564-6023

RMP: Risk Management Plans
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016
Number of Days to Update: 81
Last EDR Contact :11/18/2016
Source: Environmental Protection Agency
Telephone: 202-564-8600

ALAMEDA CO. UST: Underground Tanks
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016
Number of Days to Update: 27
Last EDR Contact :10/07/2016
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

AST: Aboveground Petroleum Storage Tank Facilities
Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Number of Days to Update: 69
Last EDR Contact :11/21/2016
Source: California Environmental Protection Agency
Telephone: 916-327-5092

Alameda County CS: Contaminated Sites
Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/12/2016
Number of Days to Update: 35
Last EDR Contact :10/07/2016

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

BROWNFIELDS: Considered Brownfieds Sites Listing

Standard Environmental Record Source: State and tribal Brownfields sites
Search Distance: 0.333 Mile

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Number of Days to Update: 58
Last EDR Contact :09/26/2016

Source: State Water Resources Control Board
Telephone: 916-323-7905

CA BOND EXP. PLAN: Bond Expenditure Plan

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

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
Number of Days to Update: 6
Last EDR Contact :05/31/1994

Source: Department of Health Services
Telephone: 916-255-2118

CA FID UST: Facility Inventory Database

Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

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
Number of Days to Update: 24
Last EDR Contact :12/28/1998

Source: California Environmental Protection Agency
Telephone: 916-341-5851

CA LA LF: City of Los Angeles Landfills

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Number of Days to Update: 56
Last EDR Contact :10/17/2016

Source: Engineering & Construction Division
Telephone: 213-473-7869

CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2015

Source: Department of Toxic Substances Control

Number of Days to Update: 38
Telephone: 916-255-6504
Last EDR Contact :11/07/2016

CHMIRS: California Hazardous Material Incident Report System
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016
Source: Office of Emergency Services
Number of Days to Update: 59
Telephone: 916-845-8400
Last EDR Contact :10/26/2016

CONTRA COSTA CO. SITE LIST: Site List
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.25 Mile

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/22/2016
Source: Contra Costa Health Services Department
Number of Days to Update: 47
Telephone: 925-646-2286
Last EDR Contact :10/31/2016

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/26/2016
Source: CAL EPA/Office of Emergency Information
Number of Days to Update: 52
Telephone: 916-323-3400
Last EDR Contact :09/27/2016

CUPA AMADOR: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa Facility List

Date of Government Version: 08/22/2016
Source: Amador County Environmental Health
Number of Days to Update: 38
Telephone: 209-223-6439
Last EDR Contact :09/02/2016

CUPA BUTTE: CUPA Facility Listing
Standard Environmental Record Source: Other Standard Environmental Records
Cupa facility list.

Date of Government Version: 10/21/2016
Source: Public Health Department
Number of Days to Update: 23
Telephone: 530-538-7149
Last EDR Contact :10/24/2016

CUPA CALVERAS: CUPA Facility Listing
Standard Environmental Record Source: Other Standard Environmental Records
Cupa Facility Listing

Date of Government Version: 10/25/2016
Source: Calveras County Environmental Health

Number of Days to Update: 22
Telephone: 209-754-6399
Last EDR Contact :09/26/2016

CUPA COLUSA: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa facility list.

Date of Government Version: 09/02/2016
Source: Health & Human Services
Number of Days to Update: 38
Telephone: 530-458-0396
Last EDR Contact :11/07/2016

CUPA DEL NORTE: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa Facility list

Date of Government Version: 11/01/2016
Source: Del Norte County Environmental Health Division
Number of Days to Update: 19
Telephone: 707-465-0426
Last EDR Contact :10/31/2016

CUPA EL DORADO: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
CUPA facility list.

Date of Government Version: 05/24/2016
Source: El Dorado County Environmental Management Department
Number of Days to Update: 75
Telephone: 530-621-6623
Last EDR Contact :10/31/2016

CUPA FRESNO: CUPA Resources List
Standard Environmental Record Source: Other Standard Environmental Records
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/11/2016
Source: Dept. of Community Health
Number of Days to Update: 35
Telephone: 559-445-3271
Last EDR Contact :09/29/2016

CUPA HUMBOLDT: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
CUPA facility list.

Date of Government Version: 10/25/2016
Source: Humboldt County Environmental Health
Number of Days to Update: 22
Telephone: Not Reported
Last EDR Contact :11/21/2016

CUPA IMPERIAL: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa facility list.

Date of Government Version: 10/24/2016
Source: San Diego Border Field Office
Number of Days to Update: 22
Telephone: 760-339-2777
Last EDR Contact :10/24/2016

CUPA INYO: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records
Cupa facility list.

Date of Government Version: 09/10/2013
Number of Days to Update: 33
Last EDR Contact :11/16/2016
Source: Inyo County Environmental Health Services
Telephone: 760-878-0238

CUPA KINGS: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/25/2016
Number of Days to Update: 26
Last EDR Contact :11/16/2016
Source: Kings County Department of Public Health
Telephone: 559-584-1411

CUPA LAKE: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa facility list

Date of Government Version: 09/08/2016
Number of Days to Update: 35
Last EDR Contact :10/17/2016
Source: Lake County Environmental Health
Telephone: 707-263-1164

CUPA MADERA: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016
Number of Days to Update: 32
Last EDR Contact :11/16/2016
Source: Madera County Environmental Health
Telephone: 559-675-7823

CUPA MERCED: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
CUPA facility list.

Date of Government Version: 08/17/2016
Number of Days to Update: 32
Last EDR Contact :11/16/2016
Source: Merced County Environmental Health
Telephone: 209-381-1094

CUPA MONO: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
CUPA Facility List

Date of Government Version: 08/29/2016
Number of Days to Update: 44
Last EDR Contact :11/28/2016
Source: Mono County Health Department
Telephone: 760-932-5580

CUPA MONTEREY: CUPA Facility Listing
Standard Environmental Record Source: Other Standard Environmental Records

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Number of Days to Update: 43
Last EDR Contact :11/21/2016

Source: Monterey County Health Department
Telephone: 831-796-1297

CUPA NEVADA: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
CUPA facility list.

Date of Government Version: 07/25/2016
Number of Days to Update: 53
Last EDR Contact :10/31/2016

Source: Community Development Agency
Telephone: 530-265-1467

CUPA SAN LUIS OBISPO: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa Facility List.

Date of Government Version: 08/18/2016
Number of Days to Update: 43
Last EDR Contact :11/16/2016

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596

CUPA SANTA BARBARA: CUPA Facility Listing
Standard Environmental Record Source: Other Standard Environmental Records
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Number of Days to Update: 28
Last EDR Contact :11/16/2016

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167

CUPA SANTA CLARA: Cupa Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa facility list

Date of Government Version: 08/17/2016
Number of Days to Update: 43
Last EDR Contact :11/16/2016

Source: Department of Environmental Health
Telephone: 408-918-1973

CUPA SANTA CRUZ: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
CUPA facility listing.

Date of Government Version: 08/17/2016
Number of Days to Update: 43
Last EDR Contact :11/16/2016

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761

CUPA SHASTA: CUPA Facility List
Standard Environmental Record Source: Other Standard Environmental Records
Cupa Facility List.

Date of Government Version: 09/12/2016
Number of Days to Update: 29
Last EDR Contact :11/21/2016

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789

RECORD SOURCES AND CURRENCY

CUPA SONOMA: Cupa Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa Facility list

Date of Government Version: 09/27/2016
Number of Days to Update: 55
Last EDR Contact :09/26/2016

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174

CUPA TUOLUMNE: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list

Date of Government Version: 08/12/2016
Number of Days to Update: 49
Last EDR Contact :10/24/2016

Source: Divison of Environmental Health
Telephone: 209-533-5633

CUPA YUBA: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA facility listing for Yuba County.

Date of Government Version: 08/03/2016
Number of Days to Update: 61
Last EDR Contact :10/31/2016

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523

DEED: Deed Restriction Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/06/2016
Number of Days to Update: 37
Last EDR Contact :09/07/2016

Source: DTSC and SWRCB
Telephone: 916-323-3400

DRYCLEANERS: Cleaner Facilities

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

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: 06/02/2016
Number of Days to Update: 37
Last EDR Contact :09/02/2016

Source: Department of Toxic Substance Control
Telephone: 916-327-4498

EL SEGUNDO UST: City of El Segundo Underground Storage Tank

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Number of Days to Update: 11
Last EDR Contact :10/17/2016

Source: City of El Segundo Fire Department
Telephone: 310-524-2236

EMI: Emissions Inventory Data

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Number of Days to Update: 31
Last EDR Contact :09/23/2016

Source: California Air Resources Board
Telephone: 916-322-2990

ENF: Enforcement Action Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/22/2016
Number of Days to Update: 42
Last EDR Contact :11/16/2016

Source: State Water Resoruces Control Board
Telephone: 916-445-9379

ENVIROSTOR: EnviroStor Database

Standard Environmental Record Source: State and tribal - equivalent CERCLIS
Search Distance: 0.333 Mile

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/01/2016
Number of Days to Update: 64
Last EDR Contact :11/01/2016

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

HAULERS: Registered Waste Tire Haulers Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Number of Days to Update: 49
Last EDR Contact :11/11/2016

Source: Integrated Waste Management Board
Telephone: 916-341-6422

HAZNET: Facility and Manifest Data

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Source: California Environmental Protection Agency
Number of Days to Update: 58
Telephone: 916-255-1136
Last EDR Contact :10/12/2016

HIST CAL-SITES: Calsites Database

Standard Environmental Record Source: State and tribal - equivalent CERCLIS
Search Distance: 0.333 Mile

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
Number of Days to Update: 21
Telephone: 916-323-3400
Last EDR Contact :02/23/2009

HIST CORTESE: Hazardous Waste & Substance Site List

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Source: Department of Toxic Substances Control
Number of Days to Update: 76
Telephone: 916-323-3400
Last EDR Contact :01/22/2009

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

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
Source: Santa Clara Valley Water District
Number of Days to Update: 22
Telephone: 408-265-2600
Last EDR Contact :03/23/2009

HIST UST: Hazardous Substance Storage Container Database

Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

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
Source: State Water Resources Control Board
Number of Days to Update: 18
Telephone: 916-341-5851
Last EDR Contact :07/26/2001

HWP: EnviroStor Permitted Facilities Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/22/2016
Number of Days to Update: 43
Last EDR Contact :11/22/2016
Source: Department of Toxic Substances Control
Telephone: 916-323-3400

HWT: Registered Hazardous Waste Transporter Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/11/2016
Number of Days to Update: 36
Last EDR Contact :10/12/2016
Source: Department of Toxic Substances Control
Telephone: 916-440-7145

KERN CO. UST: Underground Storage Tank Sites & Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Kern County Sites and Tanks Listing.

Date of Government Version: 08/04/2016
Number of Days to Update: 71
Last EDR Contact :11/07/2016
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700

LA Co. Site Mitigation: Site Mitigation List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Number of Days to Update: 68
Last EDR Contact :10/17/2016
Source: Community Health Services
Telephone: 323-890-7806

LDS: Land Disposal Sites Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Number of Days to Update: 31
Last EDR Contact :11/01/2016
Source: State Water Qualilty Control Board
Telephone: 866-480-1028

LIENS: Environmental Liens Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2016
Number of Days to Update: 38
Source: Department of Toxic Substances Control
Telephone: 916-323-3400

Last EDR Contact :09/02/2016

LONG BEACH UST: City of Long Beach Underground Storage Tank

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Source: City of Long Beach Fire Department
Number of Days to Update: 34
Telephone: 562-570-2563
Last EDR Contact :10/24/2016

LOS ANGELES CO. HMS: HMS: Street Number List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Source: Department of Public Works
Number of Days to Update: 37
Telephone: 626-458-3517
Last EDR Contact :11/07/2016

LOS ANGELES CO. LF: List of Solid Waste Facilities

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/15/2016
Source: La County Department of Public Works
Number of Days to Update: 78
Telephone: 818-458-5185
Last EDR Contact :10/18/2016

LUST: Geotracker's Leaking Underground Fuel Tank Report

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Source: State Water Resources Control Board
Number of Days to Update: 31
Telephone: see region list
Last EDR Contact :11/01/2016

LUST REG 1: Active Toxic Site Investigation

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Water Quality Control Board North Coast (1)
Number of Days to Update: 29
Telephone: 707-570-3769
Last EDR Contact :08/01/2011

LUST REG 2: Fuel Leak List

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Number of Days to Update: 30
Telephone: 510-622-2433
Last EDR Contact :09/19/2011

LUST REG 3: Leaking Underground Storage Tank Database

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Source: California Regional Water Quality Control Board Central Coast Region (3)
Number of Days to Update: 14
Telephone: 805-542-4786
Last EDR Contact :07/18/2011

LUST REG 4: Underground Storage Tank Leak List

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Number of Days to Update: 35
Telephone: 213-576-6710
Last EDR Contact :09/06/2011

LUST REG 5: Leaking Underground Storage Tank Database

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Source: California Regional Water Quality Control Board Central Valley Region (5)
Number of Days to Update: 9
Telephone: 916-464-4834
Last EDR Contact :07/01/2011

LUST REG 6L: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Source: California Regional Water Quality Control Board Lahontan Region (6)
Number of Days to Update: 27
Telephone: 530-542-5572
Last EDR Contact :09/12/2011

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Number of Days to Update: 22
Telephone: 760-241-7365
Last EDR Contact :09/12/2011

LUST REG 7: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Number of Days to Update: 27
Telephone: 760-776-8943
Last EDR Contact :08/01/2011

LUST REG 8: Leaking Underground Storage Tanks

Standard Environmental Record Source: State and tribal leaking storage tank lists

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Number of Days to Update: 41
Telephone: 909-782-4496
Last EDR Contact :08/15/2011

LUST REG 9: Leaking Underground Storage Tank Report

Standard Environmental Record Source: State and tribal leaking storage tank lists

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Source: California Regional Water Quality Control Board San Diego Region (9)
Number of Days to Update: 28
Telephone: 858-637-5595
Last EDR Contact :09/26/2011

LUST SANTA CLARA: LOP Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Source: Department of Environmental Health
Number of Days to Update: 13
Telephone: 408-918-3417
Last EDR Contact :11/28/2016

MARIN CO. UST: Underground Storage Tank Sites

Standard Environmental Record Source: State and tribal registered storage tank lists

Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016
Source: Public Works Department Waste Management
Number of Days to Update: 36
Telephone: 415-499-6647
Last EDR Contact :09/29/2016

MCS: Military Cleanup Sites Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Source: State Water Resources Control Board
Number of Days to Update: 31
Telephone: 866-480-1028
Last EDR Contact :11/01/2016

MED WASTE VENTURA: Medical Waste Program List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/28/2016
Number of Days to Update: 67
Last EDR Contact :10/24/2016
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813

MINES: Mines Site Location Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Number of Days to Update: 30
Last EDR Contact :09/14/2016
Source: Department of Conservation
Telephone: 916-322-1080

MWMP: Medical Waste Management Program Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2016
Number of Days to Update: 37
Last EDR Contact :09/07/2016
Source: Department of Public Health
Telephone: 916-558-1784

NAPA CO. LUST: Sites With Reported Contamination

Standard Environmental Record Source: State and tribal leaking storage tank lists

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Number of Days to Update: 63
Last EDR Contact :11/28/2016
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

NAPA CO. UST: Closed and Operating Underground Storage Tank Sites

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Number of Days to Update: 23
Last EDR Contact :11/28/2016
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

NOTIFY 65: Proposition 65 Records

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Number of Days to Update: 38
Last EDR Contact :09/19/2016
Source: State Water Resources Control Board
Telephone: 916-445-3846

RECORD SOURCES AND CURRENCY

NPDES: NPDES Permits Listing
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/16/2016
Number of Days to Update: 36
Last EDR Contact :11/15/2016
Source: State Water Resources Control Board
Telephone: 916-445-9379

ORANGE CO. LUST: List of Underground Storage Tank Cleanups
Standard Environmental Record Source: State and tribal leaking storage tank lists
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2016
Number of Days to Update: 53
Last EDR Contact :11/07/2016
Source: Health Care Agency
Telephone: 714-834-3446

ORANGE CO. UST: List of Underground Storage Tank Facilities
Standard Environmental Record Source: State and tribal registered storage tank lists
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2016
Number of Days to Update: 63
Last EDR Contact :11/08/2016
Source: Health Care Agency
Telephone: 714-834-3446

Orange Co. Industrial Site: List of Industrial Site Cleanups
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2016
Number of Days to Update: 51
Last EDR Contact :11/07/2016
Source: Health Care Agency
Telephone: 714-834-3446

PEST LIC: Pesticide Regulation Licenses Listing
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/06/2016
Number of Days to Update: 37
Last EDR Contact :09/07/2016
Source: Department of Pesticide Regulation
Telephone: 916-445-4038

PLACER CO. MS: Master List of Facilities
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363

Last EDR Contact :09/02/2016

PROC: Certified Processors Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

A listing of certified processors.

Date of Government Version: 09/12/2016 Source: Department of Conservation

Number of Days to Update: 30 Telephone: 916-323-3836

Last EDR Contact :09/14/2016

RESPONSE: State Response Sites

Standard Environmental Record Source: State and tribal - equivalent NPL

Search Distance: 0.333 Mile

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/01/2016 Source: Department of Toxic Substances Control

Number of Days to Update: 64 Telephone: 916-323-3400

Last EDR Contact :11/01/2016

RIVERSIDE CO. LUST: Listing of Underground Tank Cleanup Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/13/2016 Source: Department of Environmental Health

Number of Days to Update: 81 Telephone: 951-358-5055

Last EDR Contact :09/19/2016

RIVERSIDE CO. UST: Underground Storage Tank Tank List

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016 Source: Department of Environmental Health

Number of Days to Update: 21 Telephone: 951-358-5055

Last EDR Contact :09/19/2016

SAN DIEGO CO. HMMD: Hazardous Materials Management Division Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013 Source: Hazardous Materials Management Division

Number of Days to Update: 23 Telephone: 619-338-2268

Last EDR Contact :06/02/2016

SAN DIEGO CO. LF: Solid Waste Facilities

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Number of Days to Update: 58
Last EDR Contact :11/16/2016

Source: Department of Health Services
Telephone: 619-338-2209

SAN DIEGO CO. SAM: Environmental Case Listing
Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Number of Days to Update: 24
Last EDR Contact :09/02/2016

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371

SAN FRANCISCO CO. LUST: Local Oversite Facilities
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Number of Days to Update: 10
Last EDR Contact :11/07/2016

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

SAN FRANCISCO CO. UST: Underground Storage Tank Information
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Number of Days to Update: 5
Last EDR Contact :11/16/2016

Source: Department of Public Health
Telephone: 415-252-3920

SAN JOSE HAZMAT: Hazardous Material Facilities
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/03/2016
Number of Days to Update: 60
Last EDR Contact :11/07/2016

Source: City of San Jose Fire Department
Telephone: 408-535-7694

SAN MATEO CO. LUST: Fuel Leak List
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Number of Days to Update: 57
Last EDR Contact :09/12/2016

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

SCH: School Property Evaluation Program
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/01/2016
Source: Department of Toxic Substances Control
Number of Days to Update: 64
Telephone: 916-323-3400
Last EDR Contact :11/01/2016

SLIC: Statewide SLIC Cases

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Source: State Water Resources Control Board
Number of Days to Update: 31
Telephone: 866-480-1028
Last EDR Contact :11/01/2016

SLIC REG 1: Active Toxic Site Investigations

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Water Quality Control Board, North Coast Region (1)
Number of Days to Update: 18
Telephone: 707-576-2220
Last EDR Contact :08/01/2011

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Number of Days to Update: 30
Telephone: 510-286-0457
Last EDR Contact :09/19/2011

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Water Quality Control Board Central Coast Region (3)
Number of Days to Update: 28
Telephone: 805-549-3147
Last EDR Contact :07/18/2011

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: Region Water Quality Control Board Los Angeles Region (4)

Number of Days to Update: 47
Telephone: 213-576-6600
Last EDR Contact :07/01/2011

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: Regional Water Quality Control Board Central Valley Region (5)
Number of Days to Update: 16
Telephone: 916-464-3291
Last EDR Contact :09/12/2011

SLIC REG 6L: SLIC Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Water Quality Control Board, Lahontan Region
Number of Days to Update: 35
Telephone: 530-542-5574
Last EDR Contact :08/15/2011

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Source: Regional Water Quality Control Board, Victorville Branch
Number of Days to Update: 22
Telephone: 619-241-6583
Last EDR Contact :08/15/2011

SLIC REG 7: SLIC List

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Quality Control Board, Colorado River Basin Region
Number of Days to Update: 36
Telephone: 760-346-7491
Last EDR Contact :08/01/2011

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Region Water Quality Control Board Santa Ana Region (8)
Number of Days to Update: 11
Telephone: 951-782-3298
Last EDR Contact :09/12/2011

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

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
Source: California Regional Water Quality Control Board San Diego Region (9)
Number of Days to Update: 17
Telephone: 858-467-2980
Last EDR Contact :08/08/2011

SOLANO CO. LUST: Leaking Underground Storage Tanks
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Source: Solano County Department of Environmental Management
Number of Days to Update: 57
Telephone: 707-784-6770
Last EDR Contact :09/26/2016

SOLANO CO. UST: Underground Storage Tanks
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2016
Source: Solano County Department of Environmental Management
Number of Days to Update: 19
Telephone: 707-784-6770
Last EDR Contact :09/26/2016

SONOMA CO. LUST: Leaking Underground Storage Tank Sites
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2016
Source: Department of Health Services
Number of Days to Update: 44
Telephone: 707-565-6565
Last EDR Contact :09/26/2016

SUTTER CO. UST: Underground Storage Tanks
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/02/2016
Source: Sutter County Department of Agriculture
Number of Days to Update: 16
Telephone: 530-822-7500
Last EDR Contact :09/02/2016

SWEEPS UST: SWEEPS UST Listing
Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

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
Source: State Water Resources Control Board
Number of Days to Update: 35
Telephone: Not Reported
Last EDR Contact :06/03/2005

SWF/LF (SWIS): Solid Waste Information System
Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

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 criteriafor solid waste landfills or disposal sites.

Date of Government Version: 08/15/2016
Number of Days to Update: 50
Last EDR Contact :11/15/2016

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320

SWRCY: Recycler Database

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

A listing of recycling facilities in California.

Date of Government Version: 09/12/2016
Number of Days to Update: 30
Last EDR Contact :09/14/2016

Source: Department of Conservation
Telephone: 916-323-3836

Sacramento Co. CS: Toxic Site Clean-Up List

Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/22/2016
Number of Days to Update: 45
Last EDR Contact :10/04/2016

Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Sacramento Co. ML: Master Hazardous Materials Facility List

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2016
Number of Days to Update: 43
Last EDR Contact :10/04/2016

Source: Sacramento County Environmental Management
Telephone: 916-875-8406

San Bern. Co. Permit: Hazardous Material Permits

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/06/2016
Number of Days to Update: 42
Last EDR Contact :11/07/2016

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041

San Mateo Co. BI: Business Inventory

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.25 Mile

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Number of Days to Update: 15
Last EDR Contact :09/12/2016

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

TORRANCE UST: City of Torrance Underground Storage Tank
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016
Number of Days to Update: 28
Last EDR Contact :10/07/2016

Source: City of Torrance Fire Department
Telephone: 310-618-2973

TOXIC PITS: Toxic Pits Cleanup Act Sites
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Number of Days to Update: 27
Last EDR Contact :01/26/2009

Source: State Water Resources Control Board
Telephone: 916-227-4364

UIC: UIC Listing
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/06/2016
Number of Days to Update: 30
Last EDR Contact :09/14/2016

Source: Deaprtment of Conservation
Telephone: 916-445-2408

UST: Active UST Facilities
Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016
Number of Days to Update: 30
Last EDR Contact :09/14/2016

Source: SWRCB
Telephone: 916-341-5851

UST MENDOCINO: Mendocino County UST Database
Standard Environmental Record Source: State and tribal registered storage tank lists
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2016
Number of Days to Update: 23
Last EDR Contact :11/28/2016

Source: Department of Public Health
Telephone: 707-463-4466

UST SAN JOAQUIN: San Joaquin Co. UST
Standard Environmental Record Source: State and tribal registered storage tank lists
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/21/2016
Number of Days to Update: 26
Last EDR Contact :09/19/2016

Source: Environmental Health Department
Telephone: Not Reported

VCP: Voluntary Cleanup Program Properties

Standard Environmental Record Source: State and tribal voluntary cleanup sites
Search Distance: 0.333 Mile

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/01/2016
Number of Days to Update: 64
Last EDR Contact :11/01/2016

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

VENTURA CO. BWT: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016
Number of Days to Update: 53
Last EDR Contact :10/24/2016

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813

VENTURA CO. LF: Inventory of Illegal Abandoned and Inactive Sites

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Number of Days to Update: 49
Last EDR Contact :09/29/2016

Source: Environmental Health Division
Telephone: 805-654-2813

VENTURA CO. LUST: Listing of Underground Tank Cleanup Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Number of Days to Update: 37
Last EDR Contact :11/14/2016

Source: Environmental Health Division
Telephone: 805-654-2813

VENTURA CO. UST: Underground Tank Closed Sites List

Standard Environmental Record Source: State and tribal registered storage tank lists
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2016
Number of Days to Update: 27
Last EDR Contact :09/14/2016

Source: Environmental Health Division
Telephone: 805-654-2813

WDS: Waste Discharge System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Number of Days to Update: 9
Last EDR Contact :11/16/2016
Source: State Water Resources Control Board
Telephone: 916-341-5227

WIP: Well Investigation Program Case List

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Number of Days to Update: 13
Last EDR Contact :09/23/2016
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726

WMUDS/SWAT: Waste Management Unit Database

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

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
Number of Days to Update: 30
Last EDR Contact :11/07/2016
Source: State Water Resources Control Board
Telephone: 916-227-4448

YOLO CO. UST: Underground Storage Tank Comprehensive Facility Report

Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016
Number of Days to Update: 48
Last EDR Contact :11/14/2016
Source: Yolo County Department of Health
Telephone: 530-666-8646

2020 COR ACTION: 2020 Corrective Action Program List

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.25 Mile

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Number of Days to Update: 6
Last EDR Contact :11/11/2016
Source: Environmental Protection Agency
Telephone: 703-308-4044

COAL ASH DOE: Steam-Electric Plant Operation Data

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Source: Department of Energy

Number of Days to Update: 76 Telephone: 202-586-8719
Last EDR Contact :09/09/2016

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Source: Environmental Protection Agency
Number of Days to Update: 40 Telephone: Not Reported
Last EDR Contact :09/06/2016

CONSENT: Superfund (CERCLA) Consent Decrees
Standard Environmental Record Source: Federal NPL
Search Distance: 0.333 Mile

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016 Source: Department of Justice, Consent Decree Library
Number of Days to Update: 53 Telephone: Varies
Last EDR Contact :09/26/2016

CORRACTS: Corrective Action Report
Standard Environmental Record Source: Federal RCRA CORRACTS facilities list
Search Distance: 0.333 Mile

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016 Source: EPA
Number of Days to Update: 64 Telephone: 800-424-9346
Last EDR Contact :09/28/2016

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Source: EPA, Region 9
Number of Days to Update: 137 Telephone: 415-947-4219
Last EDR Contact :10/24/2016

DOCKET HWC: Hazardous Waste Compliance Docket Listing
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016 Source: Environmental Protection Agency
Number of Days to Update: 91 Telephone: 202-564-0527
Last EDR Contact :11/28/2016

DOT OPS: Incident and Accident Data
Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Number of Days to Update: 42
Last EDR Contact :11/02/2016

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595

Delisted NPL: National Priority List Deletions

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016
Number of Days to Update: 10
Last EDR Contact :10/05/2016

Source: EPA
Telephone: Not Reported

ECHO: Enforcement & Compliance History Information

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Number of Days to Update: 31
Last EDR Contact :09/20/2016

Source: Environmental Protection Agency
Telephone: 202-564-2280

EPA WATCH LIST: EPA WATCH LIST

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Number of Days to Update: 88
Last EDR Contact :11/08/2016

Source: Environmental Protection Agency
Telephone: 617-520-3000

ERNS: Emergency Response Notification System

Standard Environmental Record Source: Federal ERNS list
Search Distance: Property

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Number of Days to Update: 43
Last EDR Contact :09/29/2016

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180

FEMA UST: Underground Storage Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Source: FEMA
Number of Days to Update: 55
Telephone: 202-646-5797
Last EDR Contact :10/11/2016

FINDS: Facility Index System/Facility Registry System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016
Source: EPA
Number of Days to Update: 65
Telephone: Not Reported
Last EDR Contact :09/07/2016

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Number of Days to Update: 25
Telephone: 202-566-1667
Last EDR Contact :11/17/2016

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Standard Environmental Records

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Source: EPA
Number of Days to Update: 25
Telephone: 202-566-1667
Last EDR Contact :11/17/2016

FUDS: Formerly Used Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Source: U.S. Army Corps of Engineers
Number of Days to Update: 97
Telephone: 202-528-4285
Last EDR Contact :09/09/2016

FUELS PROGRAM: EPA Fuels Program Registered Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016
Source: EPA
Number of Days to Update: 59
Telephone: 800-385-6164
Last EDR Contact :11/22/2016

FUSRAP: Formerly Utilized Sites Remedial Action Program

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Source: Department of Energy
Number of Days to Update: 59
Telephone: 202-586-3559
Last EDR Contact :11/08/2016

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Source: Environmental Protection Agency
Number of Days to Update: 40
Telephone: 202-564-2501
Last EDR Contact :12/17/2007

HMIRS: Hazardous Materials Information Reporting System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016
Source: U.S. Department of Transportation
Number of Days to Update: 87
Telephone: 202-366-4555
Last EDR Contact :09/27/2016

ICIS: Integrated Compliance Information System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016
Source: Environmental Protection Agency
Number of Days to Update: 77
Telephone: 202-564-5088
Last EDR Contact :10/11/2016

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

RECORD SOURCES AND CURRENCY

Search Distance: 0.333 Mile

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Number of Days to Update: 67
Last EDR Contact :10/28/2016

Source: EPA Region 1
Telephone: 617-918-1313

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Number of Days to Update: 41
Last EDR Contact :10/28/2016

Source: EPA Region 10
Telephone: 206-553-2857

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Number of Days to Update: 35
Last EDR Contact :10/28/2016

Source: EPA Region 4
Telephone: 404-562-8677

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Number of Days to Update: 37
Last EDR Contact :10/28/2016

Source: EPA, Region 5
Telephone: 312-886-7439

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Number of Days to Update: 105
Last EDR Contact :10/28/2016

Source: EPA Region 6
Telephone: 214-665-6597

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Number of Days to Update: 112
Last EDR Contact :10/28/2016

Source: EPA Region 7
Telephone: 913-551-7003

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271

Last EDR Contact :10/28/2016

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Source: Environmental Protection Agency
Number of Days to Update: 37
Telephone: 415-972-3372
Last EDR Contact :10/28/2016

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Source: Environmental Protection Agency
Number of Days to Update: 52
Telephone: 703-308-8245
Last EDR Contact :10/31/2016

INDIAN UST R1: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Source: EPA, Region 1
Number of Days to Update: 67
Telephone: 617-918-1313
Last EDR Contact :10/28/2016

INDIAN UST R10: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Source: EPA Region 10
Number of Days to Update: 41
Telephone: 206-553-2857
Last EDR Contact :10/28/2016

INDIAN UST R4: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Source: EPA Region 4
Number of Days to Update: 35
Telephone: 404-562-9424
Last EDR Contact :10/28/2016

INDIAN UST R5: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Source: EPA Region 5

Number of Days to Update: 52 Telephone: 312-886-6136
Last EDR Contact :10/28/2016

INDIAN UST R6: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015 Source: EPA Region 6
Number of Days to Update: 120 Telephone: 214-665-7591
Last EDR Contact :10/28/2016

INDIAN UST R7: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014 Source: EPA Region 7
Number of Days to Update: 65 Telephone: 913-551-7003
Last EDR Contact :10/28/2016

INDIAN UST R8: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016 Source: EPA Region 8
Number of Days to Update: 119 Telephone: 303-312-6137
Last EDR Contact :10/28/2016

INDIAN UST R9: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016 Source: EPA Region 9
Number of Days to Update: 37 Telephone: 415-972-3368
Last EDR Contact :10/28/2016

INDIAN VCP R1: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: Property

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Source: EPA, Region 1
Number of Days to Update: 142 Telephone: 617-918-1102
Last EDR Contact :09/26/2016

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

Standard Environmental Record Source: State and tribal voluntary cleanup sites

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
Number of Days to Update: 27 Telephone: 913-551-7365

Last EDR Contact :04/20/2009

LEAD SMELTER 1: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Source: Environmental Protection Agency
Number of Days to Update: 148
Telephone: 703-603-8787
Last EDR Contact :10/20/2016

LEAD SMELTER 2: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Source: American Journal of Public Health
Number of Days to Update: 36
Telephone: 703-305-6451
Last EDR Contact :12/02/2009

LIENS 2: CERCLA Lien Information

Standard Environmental Record Source: Federal CERCLIS

Search Distance: Property

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Source: Environmental Protection Agency
Number of Days to Update: 37
Telephone: 202-564-6023
Last EDR Contact :10/28/2016

LUCIS: Land Use Control Information System

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: 0.333 Mile

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Source: Department of the Navy
Number of Days to Update: 13
Telephone: 843-820-7326
Last EDR Contact :11/18/2016

MLTS: Material Licensing Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Source: Nuclear Regulatory Commission
Number of Days to Update: 43
Telephone: 301-415-7169
Last EDR Contact :11/07/2016

NPL: National Priority List

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016 Source: EPA

Number of Days to Update: 10 Telephone: Not Reported

Last EDR Contact :10/05/2016

NPL Site Boundaries

Sources:

EPA"s Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-566-0690

EPA Region 1
Telephone: 617-918-1102

EPA Region 2
Telephone: 212-637-4293

EPA Region 3
Telephone: 215-814-5418

EPA Region 4
Telephone: 404-562-8681

EPA Region 5
Telephone: 312-353-1063

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6118

EPA Region 9
Telephone: 415-947-4579

EPA Region 10
Telephone: 206-553-4479

NPL LIENS: Federal Superfund Liens

Standard Environmental Record Source: Federal NPL

Search Distance: Property

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

Number of Days to Update: 56 Telephone: 202-564-4267

Last EDR Contact :08/15/2011

ODI: Open Dump Inventory

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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
Number of Days to Update: 39
Last EDR Contact :06/09/2004

Source: Environmental Protection Agency
Telephone: 800-424-9346

PADS: PCB Activity Database System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Number of Days to Update: 127
Last EDR Contact :10/14/2016

Source: EPA
Telephone: 202-566-0500

PCB TRANSFORMER: PCB Transformer Registration Database

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Number of Days to Update: 83
Last EDR Contact :10/28/2016

Source: Environmental Protection Agency
Telephone: 202-566-0517

Proposed NPL: Proposed National Priority List Sites

Standard Environmental Record Source: Federal NPL
Search Distance: 0.333 Mile

A site that has been proposed for listing on the NationalPriorities 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 therequirements for listing.

Date of Government Version: 03/07/2016
Number of Days to Update: 10
Last EDR Contact :10/05/2016

Source: EPA
Telephone: Not Reported

RAATS: RCRA Administrative Action Tracking System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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
Number of Days to Update: 35
Last EDR Contact :06/02/2008

Source: EPA
Telephone: 202-564-4104

RADINFO: Radiation Information Database

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016
Number of Days to Update: 16
Last EDR Contact :10/05/2016

Source: Environmental Protection Agency
Telephone: 202-343-9775

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

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: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-LQG: RCRA - Large Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

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: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-SQG: RCRA - Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

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: 06/21/2016
Number of Days to Update: 64
Last EDR Contact :09/28/2016

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

Standard Environmental Record Source: Federal RCRA TSD facilities list

Search Distance: 0.333 Mile

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016
Source: Environmental Protection Agency
Number of Days to Update: 64
Telephone: 703-308-8895
Last EDR Contact :09/28/2016

ROD: Records Of Decision

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Source: EPA
Number of Days to Update: 74
Telephone: 703-416-0223
Last EDR Contact :09/09/2016

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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: 03/07/2011
Source: Environmental Protection Agency
Number of Days to Update: 54
Telephone: 615-532-8599
Last EDR Contact :11/17/2016

SEMS: Superfund Enterprise Management System

Standard Environmental Record Source: Federal CERCLIS

Search Distance: 0.333 Mile

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016
Source: EPA
Number of Days to Update: 10
Telephone: 800-424-9346
Last EDR Contact :10/20/2016

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016 Source: EPA
Number of Days to Update: 10 Telephone: 800-424-9346
Last EDR Contact :10/20/2016

SSTS: Section 7 Tracking Systems

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Source: EPA
Number of Days to Update: 77 Telephone: 202-564-4203
Last EDR Contact :10/24/2016

TRIS: Toxic Chemical Release Inventory System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014 Source: EPA
Number of Days to Update: 133 Telephone: 202-566-0250
Last EDR Contact :11/22/2016

TSCA: Toxic Substances Control Act

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012 Source: EPA
Number of Days to Update: 14 Telephone: 202-260-5521
Last EDR Contact :09/23/2016

UMTRA: Uranium Mill Tailings Sites

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Source: Department of Energy
Number of Days to Update: 146 Telephone: 505-845-0011

Last EDR Contact :09/09/2016

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016 Source: EPA

Number of Days to Update: 88 Telephone: 202-564-2496

Last EDR Contact :09/26/2016

US AIRS MINOR: Air Facility System Data

Standard Environmental Record Source: Other Standard Environmental Records

A listing of minor source facilities.

Date of Government Version: 06/30/2016 Source: EPA

Number of Days to Update: 88 Telephone: 202-564-2496

Last EDR Contact :09/26/2016

US BROWNFIELDS: A Listing of Brownfields Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/20/2016 Source: Environmental Protection Agency

Number of Days to Update: 51 Telephone: 202-566-2777

Last EDR Contact :09/21/2016

US CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016 Source: Drug Enforcement Administration

Number of Days to Update: 17 Telephone: 202-307-1000

Last EDR Contact :11/29/2016

US ENG CONTROLS: Engineering Controls Sites List

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Number of Days to Update: 93
Last EDR Contact :11/29/2016
Source: Environmental Protection Agency
Telephone: 703-603-0695

US FIN ASSUR: Financial Assurance Information

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016
Number of Days to Update: 65
Last EDR Contact :11/16/2016
Source: Environmental Protection Agency
Telephone: 202-566-1917

US HIST CDL: National Clandestine Laboratory Register

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Number of Days to Update: 17
Last EDR Contact :08/31/2016
Source: Drug Enforcement Administration
Telephone: 202-307-1000

US INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Number of Days to Update: 93
Last EDR Contact :11/29/2016
Source: Environmental Protection Agency
Telephone: 703-603-0695

US MINES: Mines Master Index File

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Number of Days to Update: 22
Last EDR Contact :09/01/2016
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

Standard Environmental Record Source: Other Standard Environmental Records

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Source: USGS
Number of Days to Update: 49
Telephone: 703-648-7709
Last EDR Contact :11/29/2016

US MINES 3: Active Mines & Mineral Plants Database Listing

Standard Environmental Record Source: Other Standard Environmental Records

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Source: USGS
Number of Days to Update: 97
Telephone: 703-648-7709
Last EDR Contact :09/02/2016

AOCONCERN: San Gabriel Valley Areas of Concern

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Source: EPA Region 9
Number of Days to Update: 206
Telephone: 415-972-3178
Last EDR Contact :09/19/2016

DOD: Department of Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Source: USGS
Number of Days to Update: 62
Telephone: 888-275-8747
Last EDR Contact :10/14/2016

INDIAN RESERV: Indian Reservations

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Source: USGS
Number of Days to Update: 34
Telephone: 202-208-3710
Last EDR Contact :10/14/2016

PWS: Public Water System Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 12/17/2013
Source: EPA
Number of Days to Update: 279
Telephone: Not Reported

RECORD SOURCES AND CURRENCY

Last EDR Contact :11/28/2016

RECORD SOURCES AND CURRENCY

HISTORICAL USE RECORDS

RGA LF: Recovered Government Archive Solid Waste Facilities List

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: Not Reported
Number of Days to Update: 196
Last EDR Contact :06/01/2012

Source: Department of Resources Recycling and Recovery
Telephone: Not Reported

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: Not Reported
Number of Days to Update: 182
Last EDR Contact :06/01/2012

Source: State Water Resources Control Board
Telephone: Not Reported

EDR Hist Auto: EDR Exclusive Historic Gas Stations

Standard Environmental Record Source: Historical Gas Stations

Search Distance: 0.125 Mile

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007
Number of Days to Update: 42
Last EDR Contact :02/21/2007

Source: EDR, Inc.
Telephone: Not Reported

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

Standard Environmental Record Source: Historical Dry Cleaners

Search Distance: 0.125 Mile

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007
Number of Days to Update: 42
Last EDR Contact :02/21/2007

Source: EDR, Inc.
Telephone: Not Reported

EDR MGP: EDR Proprietary Manufactured Gas Plants

Standard Environmental Record Source: Former manufactured Gas Plants

Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

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: 08/28/2009
Number of Days to Update: 55
Last EDR Contact :11/30/2012

Source: EDR, Inc.
Telephone: Not Reported

RECORD SOURCES AND CURRENCY

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.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW® 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

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

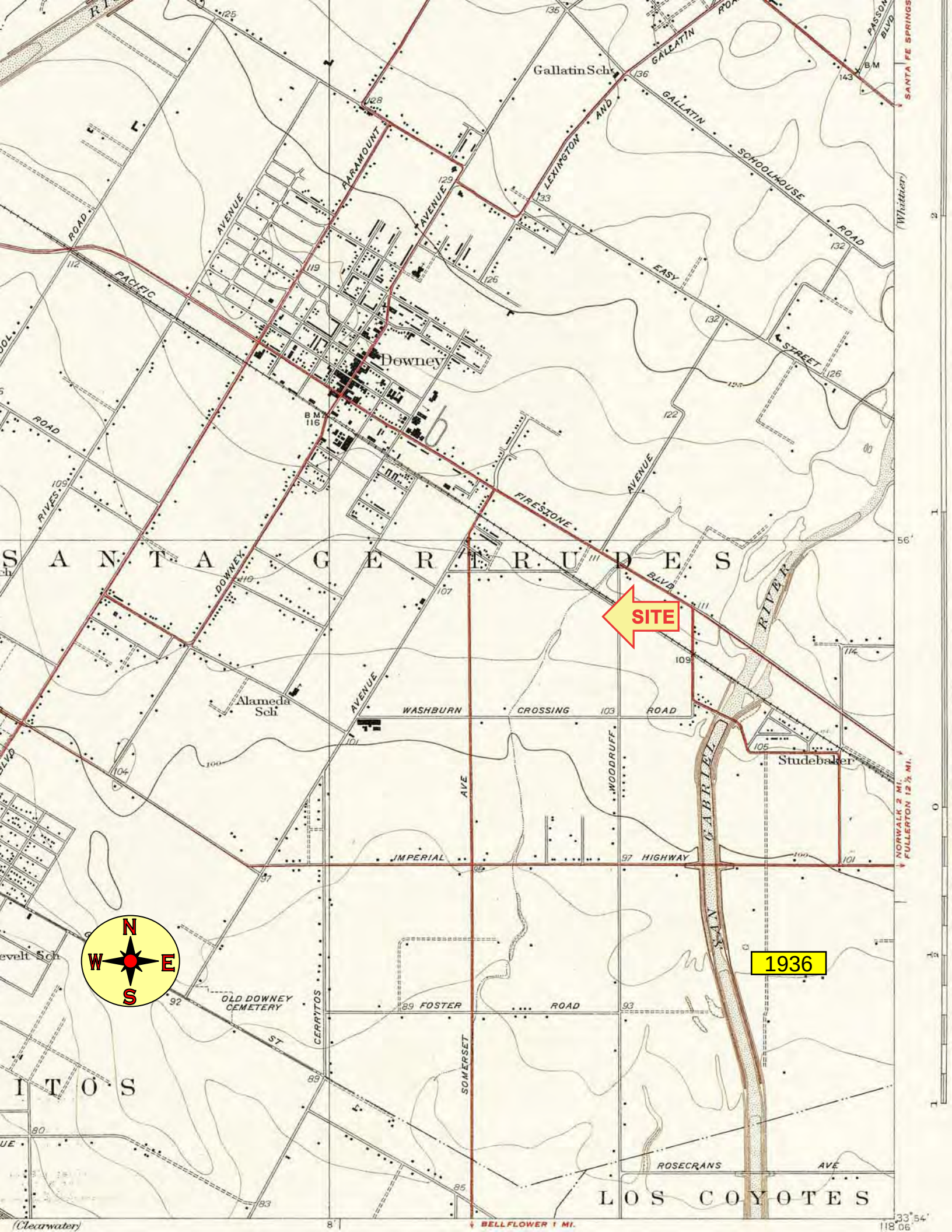
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

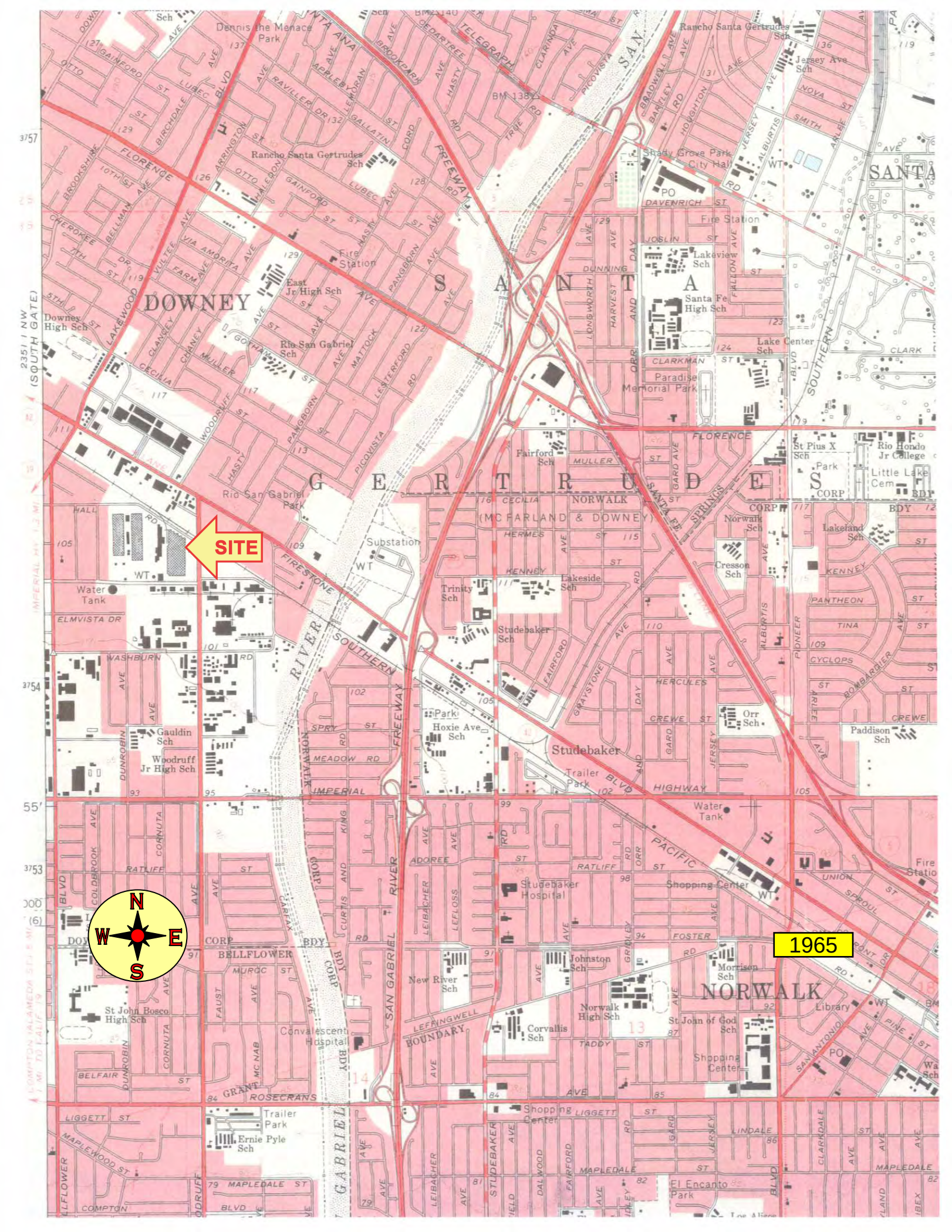
Telephone: 800-672-5559

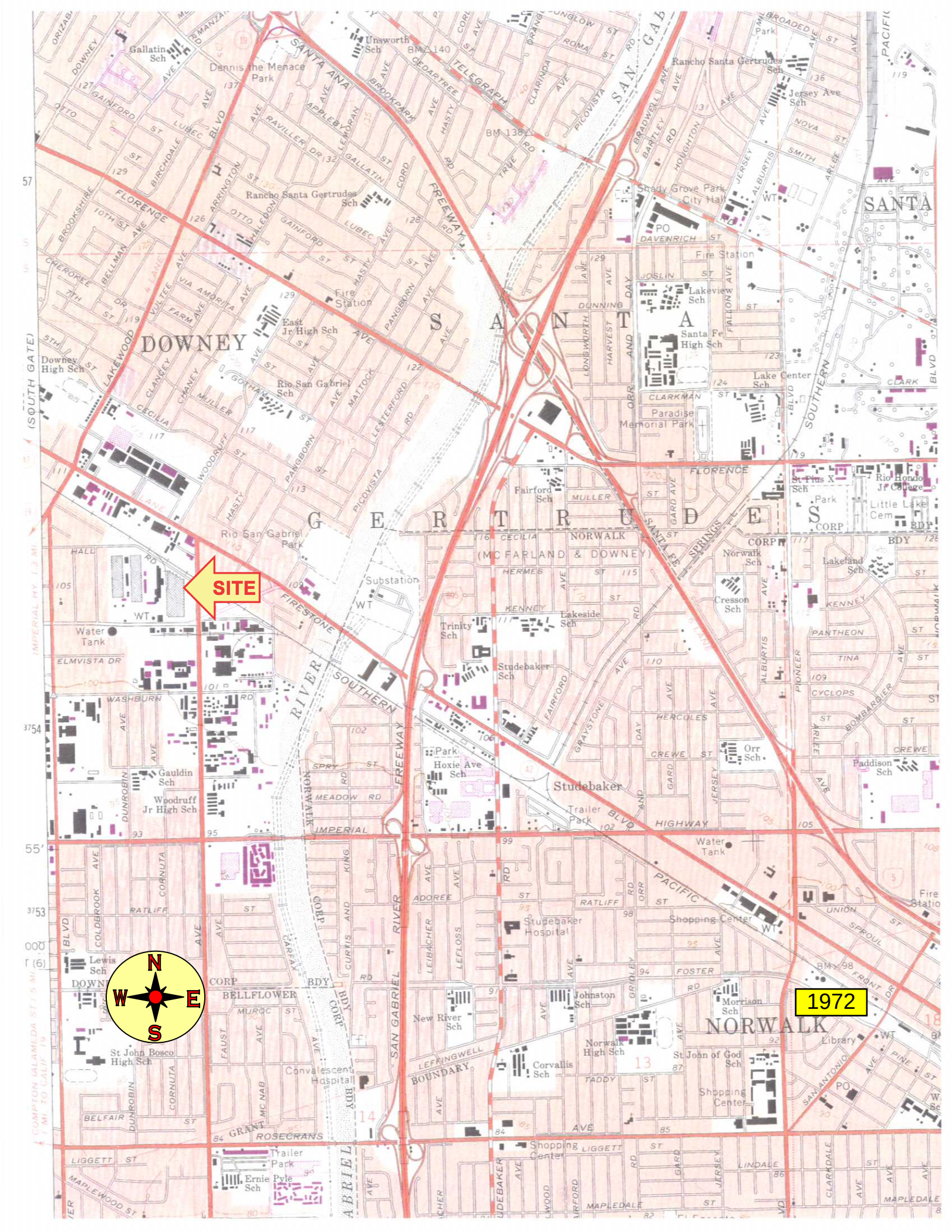
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

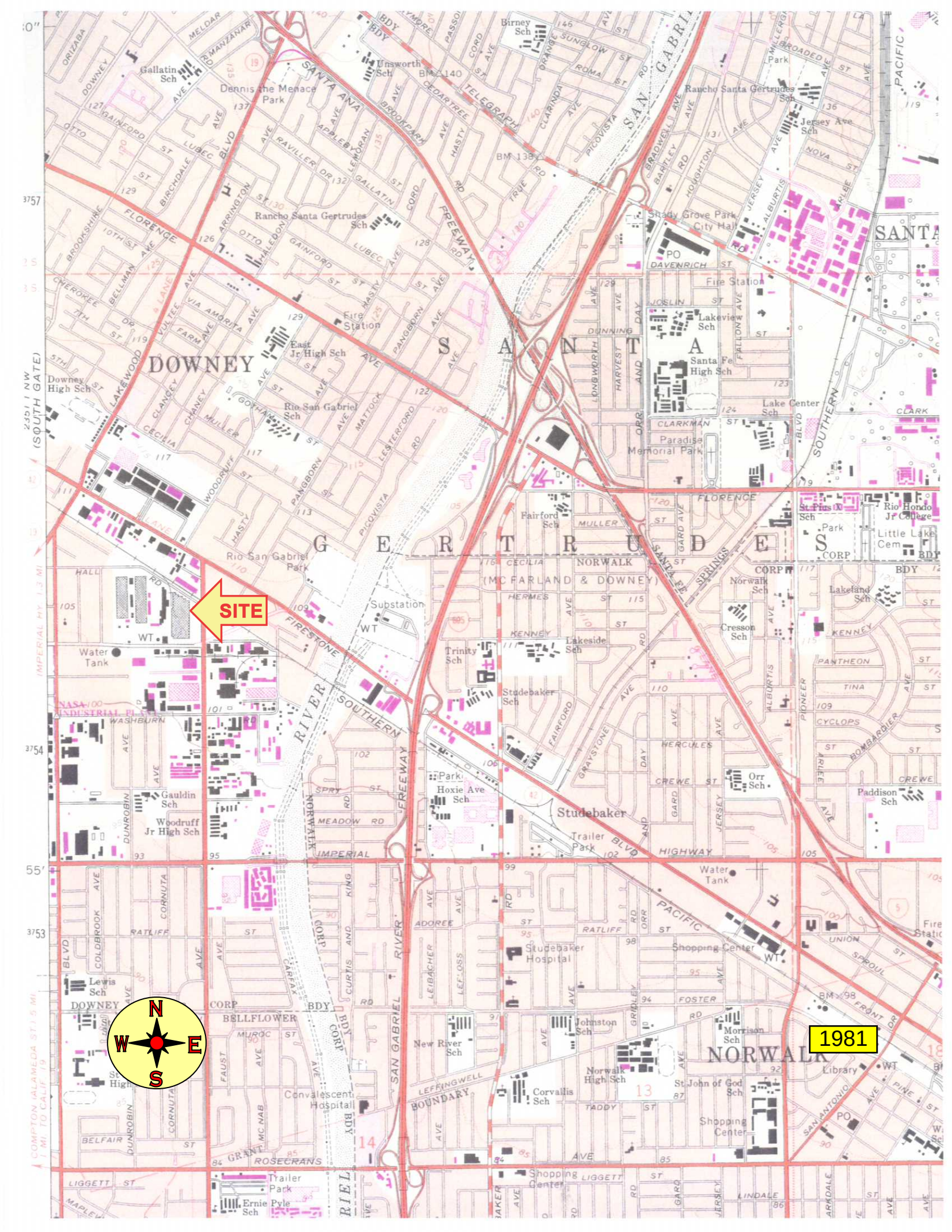
STREET AND ADDRESS INFORMATION

© 2006 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.


SITE
1936
N
W
E
S
Gallatin Sch
Downey
Alameda Sch
Studebaker
Old Downey Cemetery
Lexington and Gallatin Schoolhouse Road
Paramount Avenue
Pacific Avenue
Rives Road
Downey Road
Firestone Blvd
Washburn Crossing Road
Imperial Highway
Foster Road
Rosecrans Ave
Woodruff Ave
Cerritos Ave
Somerset
Gabriel River
Santa Fe Springs
Los Coyotes
Norwalk 2 Mi.
Fullerton 12½ Mi.
Bellflower 1 Mi.
(Whittier)
(Clearwater)


SITE
1965
N
W
E
S
DOWNEY
SANTA GERTRUDES
NORWALK
Rancho Santa Gertrudes Sch
Dennis the Menace Park
Shady Grove Park
City Hall
Fire Station
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Paradise Memorial Park
Downey High Sch
East Jr High Sch
Rio San Gabriel Sch
Rio San Gabriel Park
Fairford Sch
St Pius X Sch
Rio Hondo Jr College
Little Lake Cem
Norwalk Sch
Lakeland Sch
Cresson Sch
Trinity Sch
Lakeside Sch
Studebaker Sch
Substation
Water Tank
Gauldin Sch
Woodruff Jr High Sch
Hoxie Ave Sch
Orr Sch
Paddison Sch
Studebaker Trailer Park
Studebaker Hospital
Shopping Center
Johnston Sch
Morrison Sch
New River Sch
Norwalk High Sch
St John of God Sch
Corvallis Sch
Convalescent Hospital
St John Bosco High Sch
Trailer Park
Ernie Pyle Sch
Library
El Encanto Park
Jersey Ave Sch
Santa Ana River
San Gabriel River
Rio San Gabriel
Florence
Firestone
Imperial
Pacific
Highway
Freeway
Southern
Telegraph
Rancho Santa Gertrudes Sch
Jersey Ave Sch
Fire Station
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Paradise Memorial Park
Fairford Sch
St Pius X Sch
Rio Hondo Jr College
Little Lake Cem
Norwalk Sch
Lakeland Sch
Cresson Sch
Trinity Sch
Lakeside Sch
Studebaker Sch
Substation
Water Tank
Gauldin Sch
Woodruff Jr High Sch
Hoxie Ave Sch
Orr Sch
Paddison Sch
Studebaker Trailer Park
Studebaker Hospital
Shopping Center
Johnston Sch
Morrison Sch
New River Sch
Norwalk High Sch
St John of God Sch
Corvallis Sch
Convalescent Hospital
St John Bosco High Sch
Trailer Park
Ernie Pyle Sch
Library
El Encanto Park
Jersey Ave Sch
Santa Ana River
San Gabriel River
Rio San Gabriel
Florence
Firestone
Imperial
Pacific
Highway
Freeway
Southern
Telegraph


SITE
1972
N
S
E
W
DOWNEY
SANTA
GERTRUDES
NORWALK
Studebaker
Rio San Gabriel Park
Dennis the Menace Park
Rancho Santa Gertrudes Sch
Shady Grove Park City Hall
Fire Station
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Paradise Memorial Park
Fairford Sch
Norwalk Sch
Cresson Sch
Lakeland Sch
Trinity Sch
Lakeside Sch
Studebaker Sch
Hoxie Ave Sch
Trailer Park
Orr Sch
Paddison Sch
Gauldin Sch
Woodruff Jr High Sch
Water Tank
Substation
Lewis Sch
St John Bosco High Sch
Convalescent Hospital
New River Sch
Johnston Sch
Morrison Sch
Norwalk High Sch
St John of God Sch
Corvallis Sch
Shopping Center
Library
Ernie Pyle Sch
Gallatin Sch
Unsworth Sch
East Jr High Sch
Rio San Gabriel Sch
Downey High Sch
Jersey Ave Sch
St Pius X Sch
Rio Hondo Jr College
Little Lake Cem
Park
Hoxie Ave Sch
Studebaker Hospital
Shopping Center
Trailer Park
Fire Station
SANTA ANA FREEWAY
SAN GABRIEL RIVER FREEWAY
SOUTHERN PACIFIC
SANTA FE SPRINGS
FLORENCE
IMPERIAL HIGHWAY
ROSECRANS
BELLFLOWER
NORWALK
(MC FARLAND & DOWNEY)
BOUNDARY
(SOUTH GATE)
IMPERIAL HY 1.3 MI.
COMPTON (ALAMEDA ST) 1.5 MI.
1 MI. TO CALIF 19


SITE
1981
N
W
E
S
DOWNEY
SANTA GERTRUDE
NORWALK
Rio San Gabriel Park
Dennis the Menace Park
Fire Station
Water Tank
Substation
Shopping Center
Studebaker Hospital
Convalescent Hospital
Trailer Park
Paradise Memorial Park
Shady Grove Park
City Hall
Library
Downey High Sch
East Jr High Sch
Woodruff Jr High Sch
Gallatin Sch
Unsworth Sch
Birney Sch
Rancho Santa Gertrudes Sch
Rio San Gabriel Sch
Lakeview Sch
Santa Fe High Sch
Lake Center Sch
Fairford Sch
Lakeside Sch
Trinity Sch
Studebaker Sch
Hoxie Ave Sch
Gauldin Sch
Lewis Sch
New River Sch
Johnston Sch
Morrison Sch
Norwalk High Sch
Corvallis Sch
St John of God Sch
Ernie Pyle Sch
Norwalk Sch
Cresson Sch
Lakeland Sch
Orr Sch
Paddison Sch
Jersey Ave Sch
Rio Hondo Jr College
Little Lake Cem
Florence
Imperial
Firestone
Telegraph
Pioneer
Norwalk
Studebaker
Trailer Park
Pacific
Highway
Freeway
River
Southern
Santa Fe Springs
Rosecrans
Foster
Leffingwell
Boundary
Adoree
Ratliff
Meadow
Spry
Washburn
Hall
Florence
Clarkman
Joslin
Davenrich
Dunning
Harvest
Orr and Day
Gard
Jersey
Alburtis
Fallon
Bradwell
Bartley
Houghton
Nova
Broaded
Miller
Sunglow
Roma
Orange
Clarinda
Picovista
Brookpark
Cedartree
Hasty
Lubec
Gainford
Otto
Ravilla
Lemoran
Applebee
Arrington
Otto Haldon
Brookshire
Bellman
Cherokee
Via Amorita
Farm
Vultee
Lakewood
Clancey
Chaney
Muller
Gotham
Mattock
Lesterford
Pangborn
Woodruff
Cecilia
Hermes
Kenney
Pantheon
Tina
Cyclops
Bombardier
Crewe
Graystone
Fairford
Hercules
Alburtis
Pioneer
Curtis and King
Carfax
Corp
Ardmore
Passol
Cord
Ave
St
Rd
Blvd
Dr
Ln
Pl
Way
Ct
Sch
Park
Hosp
Cem
Jr College
Fire Station
Water Tank
Shopping Center
Trailer Park
Convalescent Hospital
Substation
Paradise Memorial Park
Shady Grove Park
City Hall
Library
PO
WT
BM 140
BM 138
BM 98
BDY
CORP
NASA Industrial Plant
Compton (Alameda St) 5 Mi
Imperial Hy 1.3 Mi
(South Gate) 2.5 Mi NW
3757
3754
3753
55'

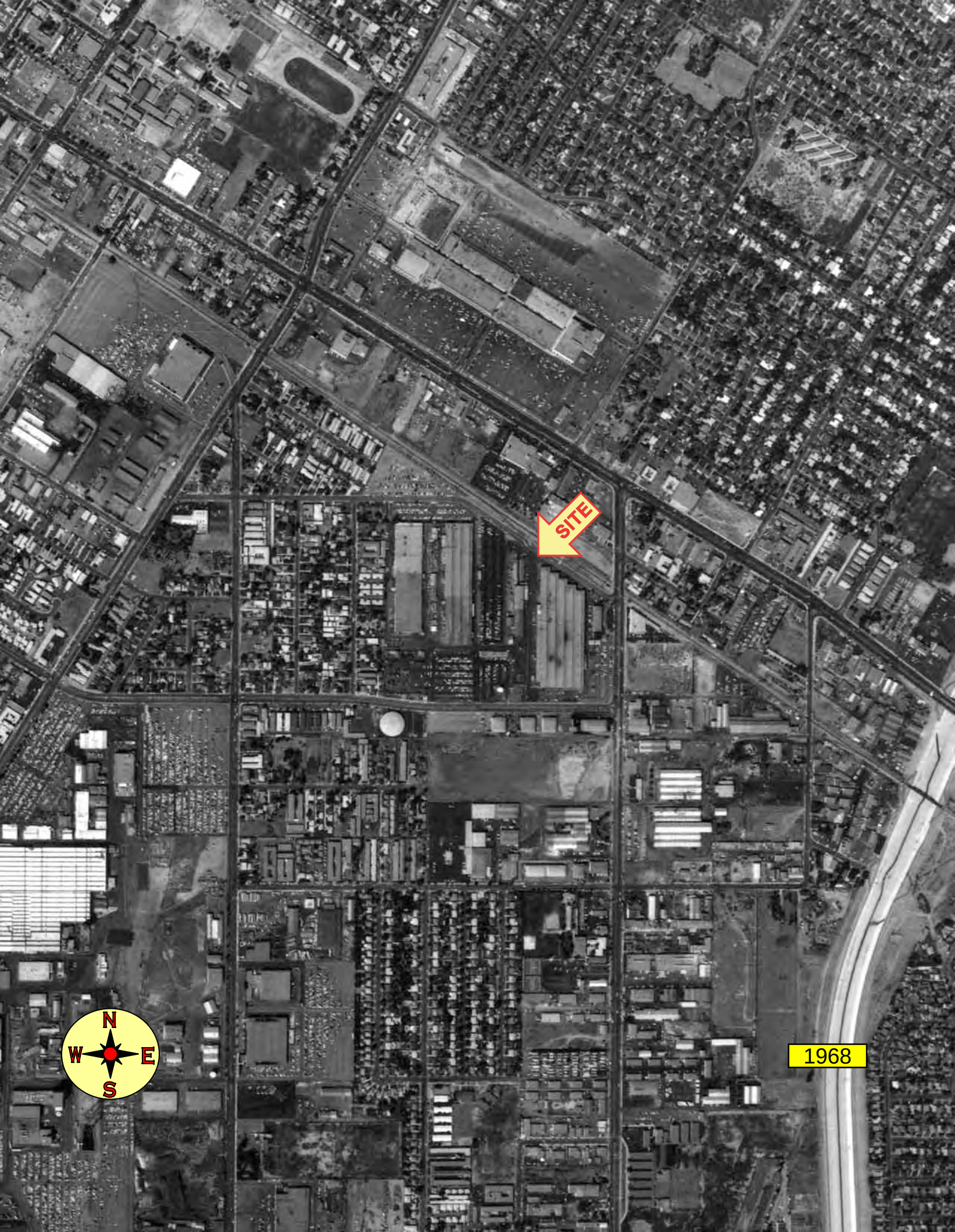
C300 M195
SITE
N
W
E
S
1928

SITE
N
W
E
S
1938

SITE
N
W
E
S
1947

SITE
N
W
E
S
1952

SITE
N
W
E
S
1960


SITE
N
W
E
S
1968

SITE
N
W
E
S
1976

SITE
N
W
E
S
1982

SITE
N
W
E
S
1994

SITE
N
W
E
S
2002

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

August 20, 1996

Mr. Jack Wunderlich
P.O. Box 241
Downey, CA 90241

UNDERGROUND STORAGE TANK CASE CLOSURE
WSTERN PACIFIC PULP & PAPER
9350 HALL ROAD, DOWNEY (I-13583)

Dear Mr. Wunderlich,

This letter confirms the completion of the site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location.

Based on the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please contact our office if you have any questions regarding this matter.

Sincerely,

ROBERT P. GHIRELLI, D. Env.
Executive Officer

DAVID G. DEANER
Acting Assistant Executive Officer
Underground Tanks Section

Due Diligence, Inc.
Architectural/Environmental/Seismic Consultants

April 23, 2007

RiverSource Life Insurance Company
c/o Ms. Nancy Bachmeier
RiverSource Investments, LLC
25510 Ameriprise Financial Center
Minneapolis, MN 55474

Re: Asbestos Operations and Maintenance Plan
Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, California 90241
Project No. 70001016-1

Dear Ms. Bachmeier:

In accordance with our accepted proposal, AES is providing two Asbestos Operations and Maintenance Plans for the above-referenced site and three compact discs are provided for your use. AES is not affiliated with the borrower or any other parties to this transaction.

We appreciate this opportunity to provide professional consulting services to you. Should you have any questions, please do not hesitate to call.

Very truly yours,

AES DUE DILIGENCE, INC.

Robert Presta
Registered Environmental Assessor

RP: lo
Enclosures

ASBESTOS OPERATIONS AND MAINTENANCE MANUAL

Prepared for

RiverSource Life Insurance Company

Asbestos Operations and Maintenance Plan

Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, California 90241

April 23, 2007

Corporate Office:
AES Due Diligence, Inc.
Architectural/Environmental/Seismic Due Diligence Consultants
4909 Murphy Canyon Road, Suite 301
San Diego, California 92123

(858) 569-0211 -Tel
(858) 569-0275 – Fax

AES Regional Offices

Chicago, IL	***Dallas, TX***	***Los Angeles, CA***
(847) 498-4780	*(972) 298-2412*	*(949) 955-0413*
San Francisco, CA	***Denver, CO***	***Portland, OR***
(707) 996-5529	*(303) 648-9897*	*(503) 296-0711*

TABLE OF CONTENTS

I. INTRODUCTION 1

II. PARTICIPATION AND ROLE DEFINITION 4

III. ASBESTOS IDENTIFICATION 7

IV. AIR MONITORING 8

V. EVALUATION OF EXISTING MATERIAL CONDITIONS 9

VI. INITIAL CLEANING 11

VII. TRAINING 12

VIII. WORKER PROTECTION 15

IX. ABATEMENT PROCEDURES 18

X WORK BY OUTSIDE CONTRACTORS 20

XI. RELEASE EPISODES 21

XII. PERIODIC SURVEILLANCE 23

XIII. DISPOSAL PROCEDURES 24

XIV. NOTIFICATION AND WARNING 25

XV. RECORD KEEPING 27

APPENDIX

O&M Program Forms
Asbestos Awareness Quiz
State Regulations
Federal Regulations

Asbestos Operations and Maintenance (O&M) Program
Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, California 90241
Project No. 70001016-1

I. INTRODUCTION

AES Due Diligence (AES) has prepared an Asbestos Operations and Maintenance Plan based on a Phase I Environmental Report on the Downey Industrial Center completed by AES Due Diligence, Inc. (AES) dated April 13, 2007. Based on the construction date of 1951, and our observations, the present buildings are suspect for materials containing asbestos. The suspect materials include: spray acoustical ceiling materials, vinyl floor tiles, floor or roof mastic, drywall, insulation and transite materials. The suspected materials are both friable and non-friable. No sampling or analytical testing of ASTM Non-Scope items was completed. AES recommends the implementation of an asbestos operation and maintenance plan to manage the ACM.

The observed ACM appeared to be in good condition. Due to the age of the original structures (c. 1951), AES recommends the implementation of an Operations and Maintenance (O&M) Plan for asbestos-containing materials (ACM).

The identified materials were observed to be in generally good condition and can be managed in-place with an Asbestos Operations and Maintenance (O&M) Program. In accordance with accepted practices, any other building materials that are presumed to be asbestos-containing materials (PACM) should be tested to verify the actual percentage of asbestos content by weight prior to renovation, demolition, or maintenance activities. A licensed asbestos abatement contractor in accordance with state and federal regulations should remove any damaged and friable ACM from the subject site prior to demolition.

The purpose of this Asbestos Operations and Maintenance (O&M) Program is to implement practices and procedures that periodically inspect and maintain the suspect ACM at the project site and allow the suspect ACM to remain in-place until the suspect ACM materials are removed. In accordance with the United States Department of Safety and Health Administration (OSHA) an employer and/or building owner may demonstrate, for OSHA purposes, that no ACM is present by having an inspection and testing performed pursuant to the requirements of paragraph (k)(5) of 29 CFR 1926.1101.

Background of Asbestos

Asbestos is the common name for a group of naturally occurring mineral silicates, which are resistant to heat, and chemicals. Asbestos minerals are particularly useful as acoustical materials, insulating, fireproofing and strengthening additives for construction materials. The unique characteristics of asbestos have resulted in a very diverse use of the material over the years. Typical uses of materials containing asbestos include: spray-applied fire-proofing, boiler/mechanical equipment insulation, architectural ceiling fixtures, ceiling tile, floor tile, textured paint, steam and water pipe insulation and transite panels on cooling towers.

Exposure to asbestos can potentially result in various diseases. Asbestosis, mesothelioma and lung cancer are all associated with asbestos exposure. Asbestos diseases have a latency period ranging from 10 to 30 years after initial exposure.

Federal, state, and local governments have addressed the issue of asbestos exposure. Remedial options include removal, enclosure, encapsulation, or an Asbestos O&M Program. If any option other than removal is chosen then an Asbestos O&M Program, which serves to reduce exposure potential to asbestos materials should be implemented. Even if removal is planned, an O&M Program is recommended as an interim control measure.

An O&M Program is a detailed approach to controlling the disturbance of ACM. An O&M Program will affect maintenance, cleaning and contractor personnel who may need to work in close proximity to these materials. Also, the O&M Program affects all the building occupants to varying degrees.

Purpose of the Asbestos O&M Program

The purpose of the Asbestos O&M Program being developed for the Downey Industrial Center is to comply with the Occupational Safety and Health Administration (OSHA) Regulations found in 29 CFR 1926.1101 and 29 CFR 1910.1001 and to implement a satisfactory approach to controlling the disturbance of ACM. The O&M Program is designed to:

1. Facilitate cleanup of previously released asbestos fibers;

2. Reduce future release by minimizing ACM disturbance or damage;

3. Control renovation activities to prevent uncontrolled disturbance of ACM; and

4. Monitor the condition of ACM.

The O&M Program should provide for the notification of building staff as to the location of ACM or suspect ACM, the training of maintenance personnel in proper cleaning and maintenance procedures, the implementation of special cleaning methods, the establishment of a process that lessens the possibility of the ACM or suspect ACM being disturbed in an

uncontrolled manner during building repairs and renovations, and the periodic inspection of areas where ACM has been identified.

Summary of O&M Program

This O&M program is composed of the following elements:

- Employee training
- Addressing low, moderate, high and immediate hazards
- Initial cleaning procedures
- Normal maintenance activities
- Work by outside contractors
- Minor fiber release episodes
- Major fiber release episodes
- Proper disposal of asbestos wastes
- Re-evaluation of ACM
- Record keeping

Other facets involved with the proper implementation of the O&M program include training of maintenance personnel in addition to informing building tenants of the practices and procedures to be used when dealing with ACM at the subject site.

II. PARTICIPATION AND ROLE DEFINITION

The success of the O&M Program depends on the active participation of many persons. Each of these persons should clearly know their role in the O&M Program, including building management, maintenance workers and contractors in the building. Participation and role definitions for this O&M Program are as follows:

O&M Program Coordinator

The O&M Program Coordinator is responsible for implementing the O&M program at the complex, including serving as the contact for outside contractors performing maintenance, repair, or renovation work at the facility. The O&M Coordinator will be the primary contact for employees and tenants that may have questions regarding ACM and/or the O&M Program. Activities which involve the disturbance of ACM should be brought to the attention of the O&M Coordinator. Proper procedures for dealing with these materials should be implemented by the O&M Coordinator. Activities involving disturbance or potential disturbance to ACM should be documented by the O&M Coordinator when they occur.

The O&M Coordinator has the responsibility for implementation of the O&M Program and the coordination of activities related to ACM. The O&M Coordinator should attend the Asbestos Awareness Program and the Personal Protection and Work Practice Control Training Program. Also, the O&M Coordinator has responsibility for coordinating activities involving potential ACM disturbance, ACM abatement, and construction activities in the complex. Where ACM exists in the facility, the O&M Coordinator should inform Contractors of the location of ACM in each work area, as indicated in the Asbestos Survey included in Appendix A. When required by this document or directed by the Environmental Consultant, the work should be performed by an Asbestos Abatement Contractor.

The O&M Program Coordinator for the Downey Industrial Center has been designated as:

Name _____ Date _____

On-site Management Personnel

This person is the on-site manager who should serve as a liaison between the tenants and the O&M Coordinator. The on-site manager should also assist engineering personnel with ACM questions or situations and immediately contact the O&M Coordinator should a problem arise.

Engineering Personnel

These persons are employees who perform engineering and maintenance work at the complex. The Engineering Personnel should have attended the 2-hour Asbestos Awareness Training provided by the Environmental Consultant which includes recognizing ACM and damage to ACM and be advised in the special techniques and procedures required in working around ACM. They should notify the O&M Coordinator if they discover, disturb, or damage ACM or material they believe to be ACM.

Asbestos Abatement Contractor

This is an independent contractor performing work in the building that involves abatement, encapsulation, disturbance, containment, spot removal, minimization cleaning and disposal of ACM or that otherwise requires such contractor to be licensed under applicable state and federal laws to perform the work in an area containing ACM. The Asbestos Abatement Contractor should be licensed and should furnish a copy of such license to the O&M Coordinator to be kept on file at the complex. Each Asbestos Abatement Contractor should report to the O&M Coordinator through the Environmental Consultant. Each Asbestos Abatement Contractor should perform his work in the building in accordance with Abatement Specification issued by the Environmental Consultant and this document, as well as in accordance with applicable state and federal laws, rules, and regulations.

General Contractors

These are independent contractors other than the Asbestos Abatement Contractors, whether employed by the building or another contractor, and are engaged to perform work in the form of construction, alteration, renovation, demolition or other work in the building. In as much as Contractors by the performance of such work may come into contact with ACM or otherwise disturb ACM in the building, all Contractors are required to report to the O&M Coordinator prior to beginning any work in the building. Also, the scope of the work to be performed by the Contractor should be discussed with the O&M Coordinator and obtain authorization to proceed from the O&M Coordinator. The Contractor **should not** perform:

(I) any work in any portion of the building containing ACM unless the O&M Coordinator or the Environmental Consultant has determined that the Contractor's work, if properly performed, will not disturb known ACM.

(ii) asbestos abatement or encapsulation or containment work unless they qualify as an Asbestos Abatement Contractor or such work area has previously been abated of ACM so that such work can be performed without disturbance to the ACM. Contractors should not disturb or damage known ACM unless trained to perform activities involving ACM and should report to the O&M Coordinator any disturbances of ACM, or a material believed to be ACM, and any discovery of ACM or a material believed to be ACM in a location, circumstances or condition other than as identified in the Asbestos Survey included as Appendix A.

Environmental Consultant

This is an independent contractor who is a knowledgeable environmental engineering company. The consultant advises the O&M Coordinator in recommended techniques and procedures. The consultant also advises the O&M Coordinator on modifications to the O&M Program, serves as a liaison between O&M Coordinator and the Asbestos Abatement Contractors, and, to the extent necessary, between the O&M Coordinator and general contractors. The consultant also prepares and issues Abatement Specifications and performs bulk sample surveys, analysis, and air monitoring in the complex as needed. The consultant may also conduct education and training programs outlined under this O&M Program and conduct annual visual inspections of the ACM in the complex.

The contractor coordinates with, consults with and observes the work of the Asbestos Abatement Contractor to the extent necessary to see that work is performed in compliance with this document, all applicable laws, rules, and regulations, and if applicable, the Abatement Specification and other specifications, if any, issued by the Environmental Consultant. The consultant should be available on an as needed basis to advise and assist the O&M Coordinator and to answer questions regarding the Asbestos Survey or specific questions regarding the O&M Program.

III. ASBESTOS IDENTIFICATION

The following sections discuss materials that have been identified as suspect asbestos containing materials at the Downey Industrial Center.

Friable ACM

Our site observations identified spray acoustical ceiling materials as friable potential asbestos-containing materials (PACM) to be present in the subject sites.

Non-Friable ACM

Site observations identified non-friable presumed asbestos-containing materials (PACM) to be present on the subject sites in the form of vinyl floor tiles, floor or roof mastic, drywall, insulation and transite materials.

IV. AIR MONITORING

Background Air Monitoring

Background air sampling should be collected and analyzed by Phase Contrast Microscopy (PCM) to document air quality in areas where friable and/or damaged ACM exists.

It should be noted that the EPA "clean air level" is currently at 0.01 fibers per cubic centimeter of air (f/cc). If this level is exceeded during background air monitoring, then Transmission Electron Microscopy (TEM) air samples should be collected and analyzed. TEM is asbestos fiber specific whereas PCM analyzes all fibers. Should the TEM samples be above the current EPA "clean air level" then the area should be decontaminated by a qualified, licensed Asbestos Abatement Contractor.

Annual air monitoring should be conducted to obtain a record of the air quality inside the buildings as long as ACM exists in the facility.

Employee Air Monitoring

Maintenance personnel should be periodically monitored for potential asbestos exposure during O&M activities, which may disturb the ACM. The Environmental Consultant should conduct this monitoring.

Initial sampling should be conducted during these maintenance activities, until a history of potential exposure during each type of activity is established. Samples should be analyzed using PCM according to NIOSH Consulting Method 7400. The analytical laboratory utilized for analysis of the sampled should be a successful participant in the NIOSH Proficiency Analytical Testing (PAT) program.

Results of the air samples should be made available to maintenance workers and should be retained by the O&M Coordinator to be included in the O&M Program.

V. EVALUATION OF EXISTING MATERIAL CONDITIONS

AES Due Diligence, Inc. assessed the identified suspect PACM at the Downey Industrial Center on April 9, 2007. The likelihood that the material could be disturbed in the future is related to (1) the frequency with which service workers or building occupants need to work near the materials; (2) its location with respect to sources of vibration; and (3) the potential for air erosion. The evaluation is used to classify the material with respect to its potential for disturbance.

- Low Potential – Service workers work in the vicinity of the material less than once per month, or the materials are visible but not within reach of building occupants. There is no vibration (motors, engines, intrusive noises). There is no high velocity or noticeable air movement (fan room, air shaft, ventilation air stream).

- Significant (Potential for Damage) – Service workers work in the vicinity of the material once per month to once per week, or the material is in a room or office and accessible to the occupants. Motors or engines are present but not obtrusive (e.g. ducts vibrating but no fan in the area), or occasional loud sounds (e.g. music room). Noticeable movement of air (e.g. air shaft, ventilator air stream).

- High (Potential for Significant Damage) – Service workers work in the vicinity of the material more than once per week, or the material is in a room or office and accessible to the occupants. Loud motors or engines are present (e.g. fan rooms), or intrusive noises or easily sensed vibrations (e.g. major airports or highways). High velocity air (e.g. elevator shaft, fan room).

Friable and all thermal system insulation are placed in one of the following categories:

1. Damaged or significantly damaged thermal system insulation.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

Low Potential

• The materials that are suspect are: spray acoustical ceiling materials, vinyl floor tiles, floor or roof mastic, drywall, insulation and transite materials.

Significant Potential

- None was observed.

High Potential

- None was observed.

Addressing Low Potential Materials

These materials should be maintained in-place and periodically re-inspected and re-classified as necessary. If these materials become damaged, it may require that renovations and/or repairs be conducted.

Addressing Significant Potential Materials

The guidelines listed above for addressing Low Potential Materials should be followed when addressing materials classified as a moderate hazard. In addition, caution should be taken not to disturb these materials if maintenance activities require work to be conducted in close proximity to the materials.

Addressing High Potential Materials

The guidelines listed above for addressing Significant Potential Materials should be followed when addressing materials classified as a high hazard. In addition, these materials should be repaired and/or removed by a licensed and qualified Asbestos Abatement Contractor.

VI. INITIAL CLEANING

Initial cleaning is a set of procedures such as wet-wiping and vacuuming with specialized high efficiency particulate air (HEPA) vacuums specifically designed for asbestos clean-up, which lowers the potential for excessive airborne fiber concentrations resulting from the disturbance of asbestos-contaminated surfaces. Under certain conditions, minimization cleaning procedures should be used.

VII. TRAINING

Training will be provided to all employees who may contact, disturb or abate ACM as a part of their work duties. Class I through Class IV work activities require different levels of training. It is possible for building owners to contract for outside services to meet the requirements of this document.

Class I Asbestos Work – Activities involving the removal of thermal system insulation and surfacing ACM and Presumed Asbestos Containing Materials (PACM).

Class II Asbestos Work – Activities involving the removal of ACM, which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.

Class III Asbestos Work - Repair and maintenance activities where ACM, including thermal system insulation and surfacing ACM and PACM, is likely to be disturbed.

Class IV Asbestos Work – Maintenance and custodial activities during which employees contact but do not disturb ACM or PACM and activities to clean up dust, waste and debris resulting from Class I, II, and III activities.

There are three levels of asbestos training:

1. Awareness Training (2 hours)
2. O&M Training (16 hours)
3. Abatement Worker Training (40 hours)

Awareness Training

The names of subject site employees who have attended a 2-hour asbestos awareness training program to all employees who may contact ACM as a part of their duties. Form 1 in Appendix B documents their participation. The topics covered in this training include:

- Asbestos forms and uses
- Identification and location of ACM at the Downey Industrial Center.
- Health effects associated with asbestos exposure
- Recognition of potentially hazardous conditions including damage, delamination, and deterioration to ACM
- Procedures for reporting hazardous or potentially hazardous situations associated with the ACM to the O&M Program Coordinator
- Review of the O&M program
- Awareness Quiz

New employees should receive this awareness training within 60 days of employment.

Attendance sheets and records of training activities should be maintained by the O&M Program Coordinator and attached to the O&M Program. These forms are included in Appendix B.

Video awareness training programs or on-site training programs are available through environmental consulting firms. These programs generally meet the OSHA awareness training requirements.

O&M Training

Maintenance and custodial employees whose work involves disturbance of ACM may attend O&M Training. This training should cover the following areas:

- Proper methods for working with and around ACM
- Training for proper use of respiratory protection, personal protective equipment, and use of the O&M procedures
- Respiratory protection requirements
- EPA and OSHA regulations regarding asbestos
- O&M Training Quiz

This training may be accomplished through the attendance of an EPA-approved training course that will also include the awareness training. Workers who have completed this training will be qualified for periodic surveillance of ACM.

Attendance sheets and other records of training activities should be maintained by the O&M Coordinator and attached to this O&M Program using Form 2 in Appendix B.

This training should be approximately 16 hours.

Abatement Worker Training

Employees whose work will involve the actual abatement of ACM should attend Abatement Worker Training. This program should cover the following areas:

- Pre-asbestos abatement work activities
- Work area preparation
- Establishing decontamination units
- Personal protection, including respiratory equipment selection, use, fit-testing, and protective clothing
- Worker decontamination procedures
- Safety considerations in the abatement work area
- A series of practical hands-on exercises
- Proper handling and disposal of ACM wastes
- Asbestos Abatement Worker Training Quiz

This training may be accomplished through the attendance of an EPA-approved training course. Attendance sheets and other records of training activities should be maintained by the O&M Program Coordinator and attached to this O&M Program using Form 4 in Appendix B.

This training should be 40 hours.

VIII. WORKER PROTECTION

Various worker protection programs and guidelines may be required to be implemented as part of this O&M Program. These include the following:

- Establishment of a Medical Surveillance Program
- Establishment of a Respiratory Protection Program
- Use of Personnel Protective Clothing and Equipment

The following sections outline these various worker protection programs and guidelines.

Medical Surveillance Program

Occupational Safety and Health Administration (OSHA) regulations require the implementation of a Medical Surveillance Program for employees for a combined total of 30 or more days per year are engaged in Class I, Class II and III work or are exposed at or above a permissible exposure limit.

This program includes a pre-employment physical, annual physical re-examinations, and an exit physical when leaving the company. The physical should include the following:

- Complete medical history
- Pulmonary function tests
- Chest X-rays (administered at the discretion of the physician)

A Medical Surveillance Program is also required by OSHA for all employees who wear a negative pressure respirator. A baseline examination, annual examinations for the duration of employment, and a termination examination are all elements of a Medical Surveillance Program.

Records should be maintained on file for at least 30 years and be available to each employee participating in the Medical Surveillance Program. Copies of medical records should be stored separately from personnel files and access to these medical records should be restricted to only designated personnel.

The examining physician should be notified that he or she will be the primary holder of medical records and the records should contain the hard copy of the x-ray. Prior to the disposal of any of these records, the O&M Coordinator should be notified.

Respiratory Protection Program

OSHA Regulations 29 CFR 1910.134 and 1910.1001 and 29 CFR 1926.1101 require a Respiratory Protection Program. Since the program should be administered by an appropriately trained administrator, outside services may be contracted. Employees will be provided with respiratory protection whenever performing the following: O&M activities were thermal system insulation or surfacing material is being disturbed, activities were a negative exposure

assessment has not been performed, whenever fiber concentrations exceed the permissible exposure limit, or when working in a regulated area where respiratory protection is required.

The program should include provisions for the following:

- Procedures for selecting respirators for use in the workplace;
- Medical evaluations of employees required to use the respirators;
- Fit testing procedures for tight-fitting respirators;
- Procedures for proper use in routine and reasonably foreseeable emergency situations;
- Procedures and schedule for cleaning, disinfecting, storing, inspecting, repairing, discarding and maintaining respirators;
- Training of employees in the respiratory hazards for routine and emergency situations; and
- Training of employees in the proper use of respirators.

Respirators used should be selected from National Institute for Occupational Safety and Health (NIOSH) certified respirator.

The Potential Hazard's Asbestos

For the purpose of this program, the only hazard considered is airborne asbestos fibers. Accordingly, during any asbestos abatement project directly disturbing material that is known to contain asbestos or is presumed to contain asbestos, proper respirators should be worn.

Surveillance

Only those individuals who are medically able to wear respiratory protective equipment shall be issued such equipment. Before being issued a respirator, the employee should receive pertinent tests for medical and physical conditions.

Respirator Fit-Tests

Each employee determined medically fit to wear a respirator should be qualitatively fit-tested upon receiving the equipment and semi-annually thereafter. The type of fit-test conducted depends on the respirator type.

Problems in fitting a respirator may result if facial hair, corrective lenses with temple or straps or other facial characteristics of apparatus prevents a good seal from forming between the skin and sealing the surface.

Respirator Assignment and Maintenance
Respirators should be assigned to individual workers for their exclusive use. A system of record-keeping should be established to document employees who have respiratory protection equipment and the regular inspection of this equipment. Respirators should be regularly cleaned and disinfected

Respiratory Training Program

A training session with required employee attendance, should be conducted by the qualified personnel to ensure that employees understand the limitations, use, and maintenance of respiratory equipment, and other important aspects of the Respiratory Protection Program.

Surveillance of Working Conditions

Air sampling should be conducted before, during and after selected projects requiring respiratory equipment. Respiratory equipment used should be suitable for the asbestos concentrations expected to occur in the work area. Employees should be instructed to immediately leave the work area should they experience physical stress such as difficulty in breathing or dizziness.

Respiratory Program Supervision

The Respirator Program should be evaluated at least annually with program adjustments, as appropriate, made to reflect the evaluation results. Compliance wit the following points of the program should be reviewed; respirator selection purchase of approved equipment, medical screening of employees, fit-testing, issuance of equipment and associated maintenance, storage, repair, inspection, and appropriate surveillance of work area conditions.

Attention should be given to proper record-keeping regarding the Respirator Program Supervision. Records which should be kept include: a list of the employees who are trained in respirator use; documentation of the care and maintenance of respirators; medical records of each respirator user; airborne concentrations of asbestos fiber before, during and after work is conducted; and any problems encountered during renovation activities.

Personal Protective Clothing and Equipment

A variety of other safety and personal protective equipment may be required as part of the O&M Program. This equipment would be used for work activities which create a potential for ACM disturbance. This equipment includes:

- Disposable coveralls with hoods and booties
- Impervious gloves, such as PVC, nitrile, or polyethylene
- HEPA-filtered vacuum
- Asbestos 6 mil waste disposal bags with appropriate labels
- 6 mil polyethylene sheeting (used as drop cloths and barriers)

IX. ABATEMENT PROCEDURES

Activities resulting in the disturbance of asbestos-containing materials will be supervised by a competent person. The competent person will be responsible for conducting exposure assessments prior to ACM disturbance, and ensuring that employees are not exposed to asbestos created during work procedures. Under no circumstances shall an employee or tenant of this facility intentionally remove ACM or PACM in an uncontrolled manner.

Any project where disturbance of over 3 linear or 3 square feet of asbestos-containing material is likely will be performed by EPA accredited/ state licensed personnel in conformance with applicable state and federal regulations. Any persons performing activities which may result in contact or disturbance of less than 3 linear or 3 square feet of ACM, may be exempt from certain rules in California.

All Class I, Class II and Class III asbestos work shall be conducted within a regulated area. In addition, any other work where there is a reasonable possibility that the permissible exposure limit will be exceeded will be conducted in a regulated area.

If ACM or suspect ACM is found in an area where work is to be performed, the O&M Coordinator should be notified and the potential for disturbance of the ACM be evaluated by the O&M Program Coordinator prior to any maintenance work.

The work area should be inspected for ACM prior to the work which has the potential to disturb suspected ACM. The O&M Coordinator should authorize the affected areas as asbestos free, or develop procedures to limit the disturbance of ACM if identified.

If material is suspected of being ACM and is disturbed, fallen or displaced, appropriate decontamination should be conducted such as HEPA vacuuming and wet wiping of contaminated surfaces.

The following paragraphs describe general guidelines for the areas and activities identified. It the job activity is not described in this section, then the O&M Coordinator should conduct an inspection and designate the appropriate precautionary measures.

- Do not disturb or damage materials that are suspected of or known to contain asbestos or deemed to be contaminated with asbestos.
- Under no circumstances should removal of ACM be undertaken without utilizing a licensed asbestos abatement contractor. Nor should ACM removal be undertaken without proper procedural review and appropriate precautions to prevent exposure and contamination of adjoining areas.

The areas of damaged ACM should be repaired as by a licensed asbestos abatement contractor. This contractor should:

- Wear proper protective clothing and respiratory protection.
- Limit access to the area.
- Thoroughly wet the debris with amended water and double bag the ACM in appropriately labeled 6-mil asbestos disposal bags to await proper disposal.
- Repair the damaged areas with a non-asbestos material, or sealed with an encapsulating material.
- Debris, cleaning materials, filters, etc. should be disposed of as asbestos waste.

Remodeling or renovation work to be performed should be discussed with O&M Coordinator. How these activities may affect the ACM should be evaluated, and proper actions should be taken to alleviate this situation prior to conducting work. If necessary, further sampling and analysis of suspect materials may be required to verify asbestos content.

If at any time, unknown materials are encountered, work should stop immediately and the O&M Coordinator should be notified. Upon review of the inspection report, if the asbestos content of the material is still unknown, it should be assumed to be ACM until laboratory analysis yields otherwise.

Renovation, maintenance, construction or other activities that may disturb ACM should be approved by the O&M Coordinator. The following steps should be followed if these activities are scheduled:

- Restrict access to the work area by posting warning signs and erecting barriers.
- Workers should use appropriate personal protective equipment, including respirators and disposable clothing.
- A HEPA vacuum should be available to clean up debris that may be created.
- Wet methods should be used to clean up the possible release of fibers.
- Asbestos debris and cleaning materials should be disposed of as asbestos waste.
- Air monitoring should be conducted to document airborne fiber levels, unless a documented history of airborne fiber levels below 0.1 f/cc has been established for the type of work being conducted.
- Intentional removal of ACM for the sole purpose of asbestos abatement should not be performed by employees or tenants of the facility. If maintenance personnel are to conduct small scale short duration asbestos maintenance activities, they must be licensed under California law.

The O&M Coordinator should maintain records of maintenance activities, which might disturb ACM. These records should include a description of work, the workers involved, controls used to reduce the potential of exposure, the results of any exposure monitoring, and disposal records for asbestos wastes. Forms 7 and 8 in Appendix B should be completed for each maintenance-related activity which may disturb ACM. Maintenance activities routinely performed by the subject site employees should be reviewed in order to assign levels of protection for these various work tasks. It is recommended that the O&M Coordinator develop a description of work activities to be performed by the building staff.

X. WORK BY OUTSIDE CONTRACTORS

Outside contractors performing maintenance, repair, or renovation work at the Downey Industrial Center should meet with the O&M Coordinator before performing any work. Outside contractors should be provided with information about the locations of ACM that they might come in contact with and be allowed to examine this O&M Program.

Outside contractors are required to follow proper work procedures to minimize potential disturbance to ACM. Such work procedures should be outlined and approved by the O&M Coordinator. A sign in/sign out record should be used to document that outside contractors receive this information, and this record should be kept by the O&M Program Coordinator.

Contractors, other than approved, licensed and qualified Asbestos Abatement Contractors, are not authorized to disturb ACM at the Downey Industrial Center.

Maintenance activities that directly affect ACM or PACM should not be performed by untrained or unlicensed personnel. Maintenance activities should be approved by the O&M Program Coordinator. This includes activities conducted by employees or tenants of the complex.

XI. RELEASE EPISODES

Minor Fiber Release Episodes

All Class I, Class II and Class III work must be performed in a regulated area. All other operations shall be conducted in a regulated area where airborne concentrations of asbestos exceed or there is a reasonable possibility they may exceed a permissible exposure limit. A minor release episode is defined as "the falling or dislodging of three square feet or less of ACM." The following steps should be taken in the event of minor fiber release episode:

- Access to the area should be restricted.
- ACM debris should be thoroughly wetted with amended water and double-bagged in properly labeled 6 mil asbestos disposal bags.
- The damaged area should be repaired with a non-asbestos material, or sealed with an encapsulating material.
- Debris, cleaning materials, filters, etc. should be disposed of as asbestos waste.

A minor fiber release episode should be reported to the O&M Coordinator immediately. The coordinator will keep records indicating the date of the release, the areas affected, actions taken, and chain-of-custody manifests for the disposal of the waste materials generated.

Major Fiber Release Episodes

All Class I, Class II and Class III work must be performed in a regulated area. A major fiber release episode is defined as "the falling or dislodging of three square feet or more of ACM." The following steps should be taken in the event of a major fiber release episode:

- The area should be secured and sealed utilizing polyethylene sheeting as necessary to create a regulated area. Individuals not directly involved in the maintenance work should leave the area. The HVAC system in the area should be shut down and secured to prevent distribution of fibers generated during the episode. Clean-up and/or abatement activities, as needed, should be performed only by a licensed and approved asbestos abatement personnel.
- The O&M Program should be contacted immediately. An inspection and report of the episode specifying actions taken should be recorded.
- Persons entering the area should wear two disposable coveralls and an approved air purifying respirator with HEPA cartridges.
- After completion of the work, the outer coverall should be removed before leaving the secured and sealed area. The outer coverall should then be placed with other contaminated materials in an appropriately labeled 6 mil asbestos disposable bag.
- The inner coverall should be HEPA vacuumed and wet wiped. The individual can then proceed to a change room or to an area deemed "clean" (i.e. uncontaminated).

- Upon task completion, ladders and tools should be wet wiped while inside the secured and sealed area. Rags should be disposed of with other contaminated equipment in appropriately labeled 6 mil asbestos disposal bags. All waste materials should be double-bagged.
- Additional asbestos related precautions may be necessary and can be provided by the O&M Coordinator. Precautions to prevent personnel exposure and contamination of adjacent areas should be utilized.

Actions taken in the event of a major fiber release episode should be documented, with records maintained by the O&M Coordinator. Forms 10 and 12 in Appendix B should be completed.

XII. PERIODIC SURVEILLANCE

The condition of the ACM should be inspected and noted annually by the Environmental Consultant. Routine monitoring should be performed at least monthly by qualified personnel. This will serve to re-evaluate the condition of the materials with regard to changes in friability and potential fiber release.

Conditions such as damage due to physical abrasion, vandalism, or water damage should be observed and documented, and appropriate response actions delineated. This documentation should include notes, photographs and written reports which should be kept in the records held by the O&M Program Coordinator.

ACM that has been abated should also be noted. Form 7 is included in Appendix B and should be completed during the surveillance.

XIII. DISPOSAL PROCEDURES

Asbestos-containing waste resulting from asbestos activities should be stored in a secure location in accordance with EPA and OSHA regulations. Waste should be disposed of at an EPA approved landfill and waste manifests used to track disposal. For each load of asbestos waste that is regulated under the National Emission Standards for Hazardous Air Pollutants (NESHAP), a waste shipment record must be maintained.

Asbestos wastes should be thoroughly wetted and double-bagged in appropriately labeled asbestos disposal bags. Bags should be sealed airtight while the material is still wet. Bag tops should be twisted and sealed with duct tape, then bent over and sealed again with at least three wraps of duct tape. If waste materials are not immediately disposed of, properly trained personnel may establish a restricted area to store ACM as long as the area is secured and the ACM is stored in the proper containers (i.e. double bags or drums).

Additional material should not be added to bags, and bags should not be reopened after they have been sealed.

Asbestos wastes should be transported in a covered truck and disposed of at a landfill approved for asbestos.

A manifest document should be completed and signed by the O&M Program Coordinator.

XIV. NOTIFICATION AND WARNING

Employee and Tenant Notification

The communication of asbestos hazards is vital to prevent exposure. Most asbestos-related construction involves previously installed building materials. Building owners often are the only or best source of information concerning them. The owners and employers of potentially exposed employees have specific duties under federal and state regulations.

Under OSHA's Hazard Communication Standard, employees who may contact ACM as a part of their duties must be trained so as to properly protect themselves from unnecessary health risks.

Notification shall be provided to employers and employees working with the Downey Industrial Center. Notification will be accomplished by the following means:

- Employees and Contractors will be notified that asbestos is present within the facility during new employee and during contractor site-specific training within the work site.
- Before performing work which may contact/disturb asbestos, employees and employers of employees will be provided information on the presence, location and quantity of asbestos containing materials within the work area.
- Known and presumed asbestos-containing materials have been labeled whenever feasible to notify personnel of asbestos-containing materials before disturbance may occur.
- Employees and contractors will be required to notify the program coordinator whenever disturbance of asbestos-containing or potentially asbestos-containing materials may occur, or when asbestos content is unknown.
- Employees and employers of employees working within the facility shall treat all thermal system insulation, surfacing material, and floor tile installed prior to 1980 as if it contains asbestos, unless documentation exists which states otherwise.
- Employers of employees who will perform asbestos related work shall inform the building owner and employers working in the area of the location and quantity of ACM in the area and precautions to be taken to protect adjacent persons from asbestos exposure.

All employers discovering asbestos-containing materials on a worksite must notify the building owner and other employers onsite within 24 hours of its presence, location, quantity, and the precautions taken to confine airborne asbestos.

At the entrance to mechanical rooms or areas containing thermal system insulation and surfacing asbestos-containing materials, the building owner must post signs identifying the material presence, location, and appropriate work practices.

Employers must attach warning labels to products and containers of asbestos, including waste containers, and installed asbestos products, when possible. Labels must be printed in large bold letters on a contrasting background and contain a warning statement against breathing asbestos fibers and contain the following legend:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

Regulatory Agency Notification

The Environmental Protection Agency must be notified whenever supporting structure demolition is to take place or when an amount of regulated asbestos-containing material greater than 160 square feet, 260 lineal feet or 15 cubic feet is to be removed. If it is an emergency situation, the agency need not be notified in advance but must be notified no more than 48 hours after the project begins. The requirement for notification is reduced to cover projects of three square feet of friable material if the work will involve state or local government employees. The following information should be supplied:

- Name and address of the building owner or manager
- Description, size, and location of the building
- Name and address of the abatement contractor
- Estimated amount of regulated ACM to be removed
- Scheduled starting and completion dates of ACM removal
- Description of the planned removal and containment methods
- Name, address, and location of disposal site

In addition to the EPA, the individual state's environmental management office must also be notified and proper state documentation forms completed.

XV. RECORD KEEPING

Records of information concerning the presence, location, and quantity of asbestos-containing materials and presumed asbestos-containing materials installed within the facility must be maintained. In addition, records shall be kept of the following activities:

- Records will be maintained of any activities requiring the disturbance of ACM performed within the facility
- Records will be maintained of persons receiving 2 hour awareness training or 16 hour O&M training
- Records will be maintained of any persons required to wear a respirator as part of their work.
- Records will be maintained of any air monitoring data performed during asbestos related activities.
- Records will be maintained as to storage and disposal locations of ACM.
- Medical records

The O&M Coordinator should maintain records for at least 30 years.

O&M PROGRAM FORMS

FORMS

Form 1 - 2-Hour Awareness Seminar Attendance Sheet
Form 2 - 16-Hour Training Attendance Sheet
Form 3 - Worker Acknowledgment and Understanding of O&M Program
Form 4 - Worker Training Record
Form 5 - Request for Maintenance Work
Form 6 - Maintenance Work Approval Form
Form 7 - Re-Assessment of Asbestos-Containing Materials
Form 8 - Fiber Release Episode Report
Form 9 - Asbestos Abatement Project Notice
Form 10 - ACM Disposal Report

FORM 1

2-HOUR AWARENESS TRAINING
ATTENDANCE SHEET

PRINTED NAME	SIGNED

Instructor(s) _____

O&M Program Coordinator _____

Date _____

FORM 2

16-HOUR TRAINING
ATTENDANCE SHEET

PRINTED NAME	SIGNED

Instructor(s) _____

O&M Program Coordinator _____

Date _____

FORM 3

WORKER ACKNOWLEDGMENT AND UNDERSTANDING
OF O&M PROGRAM SIGN SHEET

I have read and understand the O&M Program for the Office Building.

PRINTED NAME	SIGNED

O&M Program Coordinator _____

FORM 4

WORKER TRAINING RECORD

Employee Name _____

Address _____

Department_____

Social Security Number _____

_____ Has attended 2-hour asbestos awareness seminar
_____ Has received 16-hour asbestos training
_____ Has received other asbestos-related training

Explain: _____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

_____
Employee Signature

_____
O&M Program Coordinator

_____
Date

FORM 5

REQUEST FOR MAINTENANCE WORK

Exact location of area involved (including building, room number, location within room, etc.)

_____
_____
_____

Description of Work Involved _____
_____
_____

Starting Date _____

Anticipated Completion Date _____

Approximate amount of asbestos present (linear feet, square feet, size of tank, etc.)

_____
_____
_____

Asbestos control Methods to be used (i.e. glovebag, HEPA vacuum, wet methods, etc.)

_____
_____
_____

Protective Equipment to be used (respirator, coveralls, etc_____
_____
_____

Name, address, telephone number of supervisor_____
_____

TO BE FILLED OUT BY O&M PROGRAM COORDINATOR

Permit _____ Accepted _____ Rejected _____

Signed _____ Print _____

Permit Number_____

Emergency Contact _____

FORM 6

MAINTENANCE WORK APPROVAL FORM

1. AUTHORIZATION

Authorization is given to _____ to proceed with the following maintenance work:

_____

_____

_____

2. PRESENCE OF ASBESTOS-CONTAINING MATERIALS

Asbestos-containing materials are present/are not present in the vicinity of the maintenance work.

3. WORK PRACTICES IF ASBESTOS-CONTAINING MATERIALS ARE PRESENT

The following work practices shall be employed to avoid or minimize disturbing asbestos:

_____

_____

(manuals on appropriate work practices can be referenced)

4. PERSONNEL PROTECTION IF ASBESTOS-CONTAINING MATERIALS ARE PRESENT

The following equipment/clothes shall be used/worn during the work to protect workers:

_____

_____

O&M Program Coordinator _____

Date _____

FORM 7

RE-ASSESSMENT OF ASBESTOS-CONTAINING MATERIALS

Location of asbestos-containing material(s) (apartment number, building, room(s), or general description:

_____

_____

Type of asbestos-containing material(s):

_____

_____

Abatement Status:

1. The material has been encapsulated ____, enclosed ____, neither ____, other ____

Assessment:

1. Evidence of physical damage:_____

_____

2. Evidence of water damage: _____

_____

3. Evidence of delamination or other deterioration: _____

_____

4. Degree of accessibility of the material: _____

_____

5. Degree of activity near the material: _____

_____

6. Location in an air plenum, air shaft, or airstream: _____

_____

7. Other observations (including the condition of the encapsulant or enclosure, if any):

_____

Evaluator: _____ Date: _____

O&M Program Coordinator _____

FORM 8

FIBER RELEASE EPISODE REPORT

1. Address, building, and room number(s) (or description of area) where episode occurred:
   _____
   _____

2. The release episode was reported by _____ on _____ (date).

3. Describe the episode: _____
   _____
   _____

4. The asbestos-containing material was ____/was not ____ cleaned up according to approved procedures. Describe the cleanup:
   _____
   _____
   _____
   _____

O&M Program Coordinator _____

Date _____

FORM 9

ASBESTOS ABATEMENT PROJECT NOTICE

Location of Project: _____

_____

Notice sent to: _____

_____

Project class: Planned _____ Emergency _____

Estimated quality of ACM _____

Date/Time work stated _____

Date/time work completed _____

Type of work

_____ removal _____ repair _____ encapsulation

_____ enclosure _____ decontamination _____ (other)

Note: For removal, complete Form 12.

_____

O&M Program Coordinator

_____

Date

FORM 10

ACM DISPOSAL REPORT

Date _____
Type of ACM _____
ACM Abated by_____
ACM Pick-Up at_____
ACM Disposed at_____
ACM Contained in_____
Number of Containers_____

CHAIN-OF-CUSTODY

ACM(s) Packed Under the Supervision of_____

_____ _____
Signature Title

_____ _____
Employed By Date

ACM(s) Transported By:

_____ _____
Signature Title

_____ _____
Employed By Date

ACM(s) Disposal Site:

_____ _____
Site Location Site Name

_____ _____
Received by Signature Date of Receipt

_____ _____
Employed By Receiving Document Number

ASBESTOS AWARENESS QUIZ

ASBESTOS AWARENESS QUIZ

NAME_____ DATE_____
DEPARTMENT _____

1. Circle the materials which are considered friable:

Floor Tile Mastic	Floor Tiles
Fire-proofing	Roofing Tars
Paint	Spray-Applied Ceilings
Ceiling Tiles	Damaged Texture
Damaged Pipe Insulation	Wall Texture

2. ACM stands for:

   a) Asbestos-Containing Material
   b) Amosite-Chrysotile Material
   c) Asbestos-Cement Mixture

3. A dust mask is allowed to remove small quantities of asbestos.

   a) True b) False

4. Asbestos is man made.

   a) True b) False

5. An Operations and Maintenance (O&M) Program provides:

   a) Training Information
   b) Asbestos Handling Procedures
   c) Surveillance of Existing Asbestos
   d) All of the above.

6. The short term exposure limit is:

   a) 0.2 f/cc
   b) 0.1 f/cc
   c) 1.0 f/cc
   d) 0.5 f/cc

7. The permissible exposure limit (PEL) is:

   a) 0.2 f/cc
   b) 2.0 f/cc

c) 0.1 f/cc
d) 0.05 f/cc

8. Wet-methods should be used when removing asbestos:

a) True b) False

9. To determine the concentration of asbestos fibers in the air one may:

a) Conduct air sampling.
b) Remove the asbestos present in the building.
c) Aggressively blow the air.
d) Spray water in the air.

10. The employees at the Office Building may remove ACM as long as:

a) A respirator is worn while drilling.
b) The ACM is non-friable.
c) The ACM is wet.
d) the ACM should be removed by a qualified contractor.

11. Breathing large quantities of asbestos over long periods of time may cause health problems:

a) True b) False

12. Circle parts of the O&M Program:

a) Work Practices
b) Re-insulation
c) Training
d) Surveillance
e) Notification
f) Liabilities
g) Record Keeping
h) Installation Methods

13. Water-damaged asbestos should be:

a) Kept secret to avoid lawsuits.
b) Painted to remove the water stain.
c) Reported to the O&M Program Coordinator immediately.
d) None of the above.

14. If asbestos debris is found, it should be:

a) Cleaned with a vacuum.
b) Cleaned with a broom.
c) Reported to O&M Program Coordinator.
d) Ignored.

15. People who work with asbestos should:

a) Know its hazards.
b) Be alarmed.
c) Not smoke.
d) Both a and c.

16. Maintenance work which is scheduled to be performed on unknown material should be:

a) Removed without disturbing the public.
b) Assumed ACM until sampled.
c) Performed by the O&M Coordinator.
d) Assumed non-ACM and proceed with the maintenance work.

17. The employees at the Office Building:

a) Should be alarmed of the ACM present in this facility.
b) Shall not intentionally disturb ACM.
c) Should smoke.
d) May remove ACM for the purpose of asbestos abatement.

18. Routine monitoring of the ACM:

a) May be conducted depending on finances available.
b) Should be done by the tenants.
c) Should be done annually.
d) May create asbestos hazards.

19. Air samples may be analyzed by:

a) TEM or PCM.
b) SAC or PCM.
c) PCM or ACM.
d) ACM or SAC.

20. Federal agencies who regulate asbestos are:

a) EPA and SAC.
b) PCM and OSHA.
c) OSHA and EPA.
d) EPA and ACM.

Answers to Asbestos Abatement Quiz

1. Fire-proofing, ceiling tiles, damaged pipe insulation spray-applied ceilings, damaged tile.
2. a
3. b
4. b
5. d
6. c
7. c
8. a
9. a
10. d
11. a
12. a, c, d, e, g
13. c
14. c
15. d
16. b
17. b
18. c
19. a
20. c

SCORING

All questions are worth 5 points with the exception of Questions 1 and 12, which are worth 1 point for each correct choice.

Total score is 100 points.

Due Diligence, Inc.
Architectural/Environmental/Seismic Consultants

July 25, 2008

Riversource Investments, LLC
c/o Ms. Nancy Bachmeier
25510 Ameriprise Financial Center
Minneapolis, MN 55474

Re: Phase I Environmental Assessment Report Addendum
Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, CA 90241
Project No. 70001016

Dear Ms. Bachmeier:

As requested, AES Due Diligence Inc. conducted a walk-through observation of the above-referenced site on July 24, 2008 to view the status of the known asbestos containing materials (ACM) on the subject site noted in our Phase I Environmental Assessment dated April 13, 2007. During the site visit AES visited each of the four tenant spaces and was escorted through them by tenant personnel. The suspect materials include: spray acoustical ceiling materials, vinyl floor tiles, floor or roof mastic, drywall, insulation and transite materials. There does not appear to be any changes in the status of the suspect ACM in the building and Ms. Morrison indicated that no work has been done in the suspect areas since the original site visit. There does not appear to be any changes in the status of the ACM at the subject site at this time.

We appreciate this opportunity to provide professional consulting services to you. Should you have any questions, please contact me.

Very truly yours,

AES DUE DILIGENCE INC.

Robert Presta
Registered Environmental Assessor, California

RP:lo

Due Diligence, Inc.

Architectural/Environmental/Seismic Consultants

April 13, 2007

RiverSource Life Insurance Company
c/o Ms. Nancy Bachmeier
RiverSource Investments, LLC
25510 Ameriprise Financial Center
Minneapolis, MN 55474

Re: Phase I Environmental Site Assessment
Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, CA 90241
Project No. 70001016

Dear Mr. Bachmeier:

In accordance with our accepted proposal, AES performed a walk-through survey of the above-referenced property on April 9, 2007. There are three original Reports and three compact discs provided for your use. AES Due Diligence, Inc., is not affiliated with the client or any other parties to this transaction.

We appreciate the opportunity to provide consulting services to you. If you have any questions, please contact our Orange County Regional office at (714) 996-7395 or our Corporate Office at (858) 569-0211.

Very truly yours,

AES DUE DILIGENCE, INC.

Richard E. Darwicki
Vice President
Registered Professional Engineer

RD:RED/lo

Enclosures

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared for

RiverSource Life Insurance Company
and
RiverSource Investments, LLC

Phase I Environmental Site Assessment

Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, CA 90241
April 13, 2007

Prepared by

AES Due Diligence, Inc.
Architectural/Environmental/Seismic Due Diligence Consultants
4909 Murphy Canyon Road, Suite 301
San Diego, California 92123

(858) 569-0211 -Tel
(858) 569-0275 - Fax

AES Regional Offices

Chicago, IL	***Denver, CO***	***Los Angeles, CA***
(847) 498-4780	*(303) 648-9897*	*(949) 955-0413*

Portland, OR	***Dallas, TX***	***San Francisco, CA***	***Houston, TX***
(503) 296-0711	*(972) 298-241*	*(707) 996-5529*	*(858) 761-1821*

TABLE OF CONTENTS

EXECUTIVE SUMMARY

I . IDENTIFICATION 3

II. OBJECTIVE AND SCOPE 4

III. PROPERTY DESCRIPTION 8

IV. SITE HISTORY 11

V. ENVIRONMENTAL SITE ASSESSMENT 14

VI. DATABASE RECORDS REVIEW 17

VII. ASTM NON-SCOPE ITEMS 26

VIII. CONCLUSIONS 28

IX. INTERVIEWS 29

X. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS 30

ATTACHMENTS
Vicinity Map
Site Photographs
EDR Database Report
Historic USGS Topographic Maps
Sanborn Maps
Aerial Photographs
Tank Removal Permit
Tank Closure Letter

EXECUTIVE SUMMARY

Downey Industrial Center
9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road
Downey, CA 90241
Project No. 70001016

ISSUE	ENVIRONMENTAL CONDITION IDENTIFIED				ASSESSMENT				
	NONE	REC	HREC	*de minimis*	ACCEPTABLE	O&M	PHASE 2	PHASE 3	COST
Historic Use			X		X				
UST\AST			X		X				
Chemical Use, Storage or Disposal	X				X				
Waste Storage or Disposal	X				X				
PCBs	X				X				
Environmental Records Review	X				X				
REC on Adjoining Property	X				X				
Stains or Odors	X				X				
Solid Waste or Fill	X				X				
Septic Fields, Wells or Drywells	X				X				
Pits, Ponds, Lagoons	X				X				
NON-SCOPE CONSIDERATIONS									
Asbestos		X				X			**$900**
Lead Based Paint				X	X				
Lead in Water	X				X				
Mold	X				X				
Wetlands	X				X				
Radon	X				X				

AES Proprietary Information

I IDENTIFICATION

Subject Site:	Downey Industrial Center
Location:	9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road Downey, CA 90241
Observation Date:	April 9, 2007
Site Contact:	Jim Hilands (323)-727-1144
Client:	Pacific Southwest Realty Services
Lender:	RiverSource Life Insurance Company

Environmental Professional Statement

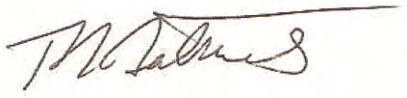
We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a site of the nature, history, and setting of the subject site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:

Richard E. Darwicki
Registered Professional Engineer

Reviewed by:

Timothy K. Dahlstrand
Certified Professional Geologist



II OBJECTIVE AND SCOPE

Objective

The purpose of this Phase I Environmental Site Assessment is to identify recognized environmental conditions that may have an impact on the subject site, using readily available sources of information, interviews and field observations. It is our understanding the Client intends to finance the site.

Procedures

This Assessment is a Phase I Environmental Site Assessment (ESA) for the improvements located at 9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road in Downey, CA 90241, performed in general accordance with ASTM Designation E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and following the Scope of Work outlined in AES Due Diligence, Inc.'s proposal. AES Due Diligence, Inc. (AES) conducted on-site observations on April 9, 2007, interviewed site operations personnel and observed adjacent properties. Environmental Data Resources, Inc. (EDR) conducted database searches following ASTM guidelines. Such searches are generally limited to a radius of one mile from the subject site. Additionally, ASTM Non-Scope items are addressed in this Assessment, including Asbestos, Lead-Based Paint, Radon Gas, Mold, Wetlands and Lead in Drinking Water. No testing was completed for ASTM Non-Scope items.

Limitations

The purpose of the Phase I ESA of the site is to address the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. If requested by the Client, certain non-scope business environmental risks are addressed in the Assessment. The Phase I ESA is intended to allow the Client to satisfy one of the requirements to qualify for the innocent landowner defense, contiguous property Owner or bona fide prospective purchaser limitations on CERCLA liability: i.e. the practice that constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC § 9601(35)(B). The Phase I ESA does not address whether requirements in addition to appropriate inquiry were met in order to qualify for CERCLA's innocent landowner defense.

The objectives of the Phase I ESA are as follows:

1. Evaluate if recognized environmental conditions (REC), historic recognized environmental conditions (HREC) or *de minimis* conditions are present on the site.

2. Provide sufficient documentation of sources, records and resources utilized in conducting the Phase I ESA.

3. Prepare a professional opinion regarding the presence of RECs at the site.

Special Terms and Conditions

The Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the site.

A Phase I ESA attempts to identify the environmental conditions of the site and vicinity. Environmental conditions and regulations are subject to change and re-interpretation. Current conditions or regulatory requirements should not be assumed to continue to represent conditions at some future time. This Assessment represents AES's professional judgments and opinions based on information presented in this Assessment and no warranty, either expressed or implied, are contained herein.

Limitations and Exceptions of Assessment

The surface conditions of the site were noted by visual observations or information obtained during interviews. No physical testing, soil/groundwater sampling or laboratory analysis was included unless otherwise noted in the Assessment.

The executive summary was prepared for the convenience of the users of this Assessment. This summary does not contain all the information presented in this Assessment and, therefore, the entire Assessment should be read to assure all pertinent information is transmitted.

AES performed the Phase I ESA of the site in substantial conformance with the scope and limitations of ASTM E 1527-05, Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* unless otherwise noted in the Assessment. Certain environmental conditions may exist on a site that are beyond the scope of the Standard, but may warrant consideration. Per the Standard, this environmental site assessment is presumed to be valid for a specific time limit as defined in ASTM Designation E-1527-05.

AES utilized the following methods to complete the reconnaissance of the site. AES observed the site and adjoining properties for indicators of existing or potential recognized environmental conditions. The site walkover consisted of walking the site boundary and several transects across the site. For a site with buildings, the accessible areas of the buildings were entered and observed. Please note that AES did not look under floors, above ceilings or inside walls. The adjoining properties were observed from the periphery of the site, if possible. The observations were documented with representative photographs. No limiting conditions were encountered during the course of the Phase I ESA.

Documents

Our Assessment represents our professional experience and judgment, and a good faith effort to obtain all available information. Documents and data provided by the Client, its designated representatives, or other interested parties, and consulted in the preparation of this Assessment, have been reviewed and may be referenced herein, with the understanding that AES assumes no responsibility or liability for their accuracy or for the withholding by any of the involved parties of any assessments or other information that could affect the transaction.

Intended Use

AES Due Diligence, Inc. is not affiliated with the borrower or any other parties to this transaction. This Assessment is intended to be used in its entirety. No portion of it may be deleted or used out of context without the written consent of AES. The opinions and information contained in this Assessment are time sensitive and represent our evaluation of the environmental site conditions at the time the services were provided. This Assessment was prepared for a limited use involving a single transaction, as set forth herein, and may not be used for any other purpose without the written consent of AES.

Proprietary Information

Field data, field notes, and other data and documents assembled by AES to produce this Assessment represent the work product of AES's training, experience and professional skill. This information belongs to and remains the property of AES Due Diligence, Inc.

Reliance

This Report is for the exclusive use of RiverSource Life Insurance Company, and Pacific Southwest Realty Services. No other party shall have the right to rely on any service provided by AES Due Diligence, Inc. without prior written consent.

Definitions

ASTM defines a Recognized Environmental Condition (REC) as "the presence or likely presence of any Hazardous Substances or Petroleum Products on a site under conditions that indicate an existing release, a past release, or a material threat of release of any Hazardous Substance or Petroleum Products into structures on the site or into the ground, groundwater or surface water of the site." The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

A Historic Recognized Environmental Condition (HREC) is defined as an environmental condition which in the past would have been a REC, but which may or may not be considered a REC currently.

A *de minimis* environmental condition generally does not present a threat to human health or

the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be *de minimis* are not a REC.

Business Environmental Risk (BER) is a risk, which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of the site, not necessarily limited to those environmental issues investigated in this Phase I ESA. BER often necessitates that an environmental professional complete one or more of the non-scope considerations identified by ASTM.

III PROPERTY DESCRIPTION

Site Visit and Interviews

On April 9, 2007, AES visited the subject site and reviewed the fixed facility. The tenants typically provided an escort that accompanied Richard E. Darwicki of AES during the interior viewing portions of the site visit.

AES observed the interiors and contents of representative occupied tenant spaces, common areas and maintenance areas and noted operations and activities at the subject site. AES looked for suspect asbestos-containing building materials, stored chemicals, underground and aboveground storage tanks, unusual surface appearance, wetlands and other issues that may indicate environmental conditions on the subject site. AES noted the location of on-site electrical power transformers and storm drainage structures where these were encountered. AES observed sites adjoining the subject site and areas within the immediate vicinity of the subject site.

AES photographed selected features at or near the subject site to support this written Assessment. The photographs are identified, described and appended to this Assessment.

Subject Site

The project is situated on a tract of land estimated to be approximately 29.16 acres. The property consists of three parcels generally bounded by Hall Road on the northeast, Stewart and Gray Road on the south and Woodruff Avenue to the east, not including the parcels that front Woodruff Avenue. All buildings are within the City of Downey, California. The original improvements were reportedly completed in 1951.

The topography of the site is nearly level and slopes to the south. The site has a maximum surface elevation difference of approximately three feet. Additional slopes are provided around the improvements for storm water drainage. On-site storm water drainage is by sheet flow to catch basins or curb inlets connected to the Downey storm sewer system.

The parking and driveway areas are generally asphaltic concrete paved. Entry driveway aprons, rubbish dumpster pads, and public and private sidewalks are concrete paved.

Pad-mounted, utility company owned electrical transformers are provided on site. The Southern California Edison Company is the electrical supplier and is responsible for transformer-related incidents. Natural gas service is provided by the Southern California Gas Company. The site is provided with municipal water and sanitary sewer services from buried utilities along the adjacent thoroughfares.

Buildings

The property has four primary single-story buildings. The Owner indicates that there are a total of 461,593 square feet (sf) of net rentable floor area. The center is occupied by multiple tenants. The original improvements were reportedly completed in 1951.

Three light steel industrial buildings and one wood framed office building are on site and are supported on shallow foundations. The painted exterior walls of the buildings covered with various finishes including stucco, corrugated steel, CMU and brick veneer. No basements are provided at the project. The roofing consists of a gradient sloped, built-up bituminous roofing system with a mineralized capsheet as a surfacing material. The roofing materials at the pitched portions consist of corrugated metal panels mechanically fastened to the roof and covered with built-up roofing. The buildings are provided with pad-mounted and roof-mounted HVAC units. There is a hydraulically driven elevator in Building 9300.

Adjoining Properties

Properties immediately adjoining the subject site are listed in the following table. The adjoining properties are located in Downey, CA 90241.

Adjoining Properties			
Name	**Operation**	**Direction from Site**	**Concerns**
Railroad tracks	Transportation	Northeast	None
Industrial Buildings 9368-9420 Stewart and Gray Road	Industrial Uses	South	None
Industrial Buildings 11711-11911 Woodruff Road	Industrial Uses	East	None
9236 Hall Road	Vacant Land	West	None

Because of the controlled surface drainage and the predominantly non-hazardous uses on the adjoining properties, they do not, in our opinion, pose a significant environmental risk to the subject site.

Vicinity

AES observed other properties located near the subject site for current uses or conditions that might be environmentally significant. The local area properties observed by AES did not appear to be engaged in environmentally significant activities.

Topography and Hydrogeology

AES reviewed the United States Geological Survey (USGS) Topographic Map, which indicates that the subject site is approximately 110 feet above mean sea level. AES observed that the general drainage flows in a southerly direction across the surface of the site. No substantial grade changes appear to have been made to the subject site when compared to the topography of surrounding sites. A copy of the USGS topographic map that covers the subject site is appended.

Geology and Surficial Soils

The subject site is located above Cenozoic era stratified sequence bedrock. The depth to bedrock is unknown.

According to the information obtained through the EDR Report, subject site is located in an area of loamy soils. These soil types have moderate permeability and would be expected to have moderate susceptibility as a result of surface spreading of wastes, depending upon local soil conditions.

Surface and Ground Water Flow

The regional surface water flows in a southerly direction. The ground water flow in the area is assumed to be to the south. The depth to ground water is unknown.

IV SITE HISTORY

No prior Environmental Reports were provided to AES for review. AES conducted a limited historical review regarding the subject site. The following summarizes AES's review of readily available historical records and maps gathered from government agencies and commercial enterprises regarding the subject site history and use. This should not be considered a listing of all available information.

Interviews

Mr. Hilands had personal knowledge of the uses of the subject site prior to the construction of the current improvements in 1951. He indicated that the site was previously used as vacant land, a munitions factory and Aerojet General manufacturing facilities.

Building Department Records Review

The original building shell permits and current Certificates of Occupancy are not on file at the city. The buildings were constructed before the city was incorporated and the records may have been lost or misplaced.

Aerial Photograph and Historical Map Review

Aerial photographs are reviewed to identify past site use and areas of environmental concern on the subject site. AES has reviewed aerial photographs of the subject site. The photographs were obtained from GeoSearch. Copies of the aerial photographs that were obtained and reviewed by AES are appended. Please see chart below for the specific dates and description summary.

Beginning in the 1860s, the Sanborn Fire Insurance Company, and others, prepared maps that depict site improvements and commercial activities in many metropolitan areas in the United States. AES attempted to obtain fire insurance maps, specific to the site, to review as part of this Phase I Environmental Site Assessment. No Sanborn map coverage is available for the area.

Historical maps provide information concerning historical site boundaries and improvements. Historic Topographic Maps were reviewed for the site, please see the chart below for enumeration of years and findings.

The historical maps reviewed were obtained from GeoSearch, and are appended.

Site History Summary		
Date	**Record Type**	**Land Use**
1928	Aerial Photograph	Agricultural uses
1936	Historical Topographic Map	Undeveloped land
1938	Aerial Photograph	Agricultural uses
1947	Aerial Photograph	Agricultural uses
1952	Aerial Photograph	Current structures
1960	Aerial Photograph	Current structures
1965	Historical Topographic Map	Current structures
1968	Aerial Photograph	Current structures
1972	Historical Topographic Map	Current structures
1976	Aerial Photograph	Current structures
1981	Historical Topographic Map	Current structures
1982	Aerial Photograph	Current structures
1994	Aerial Photograph	Current structures
2002	Aerial Photograph	Current structures

Based on AES's interpretation of the available documentation noted above the first developed and historic site use was primarily agricultural and industrial uses. No evidence of long-term fill activity, surface scarring, staining or other issues of environmental concern were visible in the aerial photographs during the review process.

Directories

City directories provide information concerning historical site ownership and use. City Directories were reviewed for the years 1971 thru 2005 and no significant information was found.

Title Records Review

A title records review, or chain-of-title, can be used to identify prior ownership of a property and to evaluate previous activities or operations in terms of environmental significance. Significant easements, covenants, restrictions and environmental liens may be indicated in title records. A chain-of-title regarding the subject site was not provided to AES for review as part of this Phase I Environmental Site Assessment.

Document Review

With the exception of a 1996 A.L.T.A. survey, no documents were provided for review.

V ENVIRONMENTAL SITE ASSESSMENT

Fixed Facilities Review

The improvements observed by AES on April 9, 2007, were reported to have been completed in 1951. Minor repair activities to meet maintenance requirements and tenant needs are ongoing. Recent improvements have included tenant space build outs and painting, according to Mr. Hilands.

Mr. Hilands indicated that no asbestos containing materials or lead based paint were utilized in the above noted improvements. In addition, he stated that landscape maintenance services are performed by outside contractors. No landscape equipment is stored on the subject site. Landscape equipment and automotive maintenance is performed at the subject site.

Site Tenant Activities

AES reviewed the current tenant for operations that may use regulated materials or generate waste products. AES observed the accessible interior and exterior common areas and maintenance areas. The site is 100% occupied by multiple tenants

AES confirmed the nature of tenant activities in the building, which primarily consists of industrial and warehouse uses. AES entered and observed the activities at sample areas of the building, including the Hudd, Duray, OmniTemp and Western Pacific areas. Also visited were common areas, mechanical rooms and the roofs.

Upon review of the activities at the above locations, AES found no specific environmental concerns regarding these operations.

On-Site Chemical and Petroleum Product Storage

AES looked for chemicals, hazardous substances, petroleum-based fuels and lubricants, and janitorial and cleaning supplies stored on the subject site. Small amounts of used machine oil, lacquer thinner, solvents, truck filters, antifreeze, used motor oil are disposed of intermittently. No other chemicals or hazardous substances were observed on the subject site other than shelf quantities of commonly available janitorial and cleaning supplies.

Waste Disposal Practices

AES identified the current wastes generated at the subject site. According to AES's observations, general and recycled wastes are disposed of from the subject site. Areas of waste storage appeared to be well kept and free of debris.

General wastes are collected, placed in a dumpster, removed from the subject site on an as-needed basis, and disposed of by city contracted firms.

Small amounts of regulated waste haulers are contracted by the Duray/J.F.Duncan and Hudd tenants to dispose of hazardous materials on an as needed basis. Hazardous Waste Manifests were requested from the tenants and have not been received to date.

Underground and Aboveground Storage Tanks

Owners and operators of certain USTs are required to register those USTs with the state agency responsible for administering the federally mandated UST program. A search of the list of registered USTs in California, prepared by EDR, showed that there are no current registered USTs located on the subject site.

AES interviewed Mr. Hilands and various tenant representatives regarding the presence of USTs and ASTs on the subject site. They stated that there are no registered USTs and no hazardous materials registered ASTs located on the subject site. There are no records of USTs and no records of ASTs on the subject site with the exception of propane storage tanks, Refrigerant 404, oxygen cylinders and nitrogen cylinders.

AES interviewed Mr. Hilands regarding the past use of heating fuels on the subject site to ascertain whether USTs or ASTs may have been utilized on site for the storage of heating fuels or oils. Mr. Hilands stated that to his knowledge the improvements have always been heated by electricity or natural gas. AES's observations confirmed the nature of the current heating systems at the subject site.

AES visually observed the subject site for surficial evidence of USTs and ASTs. AES did not observe evidence of USTs or ASTs at the subject site expect as noted above.

Polychlorinated Biphenyls (PCBs)

Federal regulations put into effect following the Toxic Substances Control Act (TSCA) require that electrical transformers be labeled to identify their PCB content. Manufacture and distribution of PCBs was banned in 1979. Transformer owners are responsible for compliance with all applicable regulations governing those transformers, including maintenance of the transformer and any remediation work resulting from a transformer-related incident.

Pad-mounted, utility company owned electrical transformers are provided on site. The observed electrical transformers appeared to be in good condition with no visible leaks. Areas around the electrical transformers exhibited no signs of visible staining or abnormal appearance. AES did not observe any labels on the electrical transformers identifying the PCB content.

Based on utility ownership and no observed leaks, AES recommends no further action with regard to PCBs in transformers.

Exterior Surface Condition

AES observed the exterior surface of the subject site. It is estimated that 98% of the subject site surface was covered by improvements and pavement. AES's observation of the site soil surfaces was therefore limited to the landscaped areas.

None of the historical documentation reviewed, indicated that the subject site was previously utilized as a quarry and/or solid waste disposal facility.

No pits, ponds or lagoons were observed at the subject site during the site visit. No areas of distressed or dead vegetation, surface depressions or surface stains attributed to chronic leaks or spills were observed during the site visit.

Interior Surface Condition

AES observed portions of the interior surfaces of the building for evidence of unusual conditions. We found no evidence of unusual conditions in the areas we observed.

VI DATABASE RECORDS REVIEW

Environmental Records Review

An environmental records database search report dated April 5, 2007, was provided by Environmental Data Resources (EDR). A copy of EDR's report is appended. The following discussion excerpts specific items from the report that deserve additional description.

In addition to the mapped sites in the EDR report, there may also be a list of unmapped sites. These are reported database sites that, due to incomplete addressing information, could not be accurately plotted by EDR. In an attempt to locate all unmappable sites, AES compared each address provided on the unmappable site list to known addresses of the site and vicinity, and attempted to locate unmappable sites during reconnaissance of the vicinity. AES concludes that no unmappable sites were identified that meet the search radius criteria of the scope of work and are considered to be environmentally significant to the subject site.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)

Since 1982, the U.S. EPA has maintained lists of contaminated sites under the federal Superfund Program in accord with the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). The U.S. EPA discovers these sites from citizen reports, routine inspection of hazardous waste generators, treatment, storage and disposal facilities, and reporting requirements.

CERCLA Sites

Facility ID No.	Facility Name and Address	Location			Regulatory History and Current Status
		Distance	Direction	Gradient	
0904850	Red Phosphorus Site 11810 Lakewood Blvd.	1/4	W	Cross	Removal site only, cleaned up.
0905602	NASA Industrial Plant	1/4	WSW	Down	Discovery 1998, not on NPL

Review of the CERCLIS list provided by EDR identifies a total of two CERCLIS sites listed within the ASTM standard minimum search distance of one-half mile from the subject site. There are no CERCLIS facilities on the subject site.

The above referenced CERCLIS facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

CERC-NFRAP List

CERCLA sites designated No Further Remedial Action Planned (NFRAP) have been removed from CERCLIS. CERC-NFRAP sites may be where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the National Priorities List (NPL), or the contamination was not serious enough to require Federal Superfund action or NPL consideration. CERC-NFRAP sites, however, may continue to represent a concern to local or state regulators.

CERC-NFRAP Sites					
Facility ID No.	Facility Name and Address	Location			Regulatory History and Current Status
		Distance	Direction	Gradient	
0901455	Peacock Aerospace 10620 Firestone Blvd	½ mi	ESE	Down	Non NPL, no action planned.

Review of the CERC-NFRAP list provided by EDR identifies only one CERC-NFRAP site listed within the ASTM standard minimum search distance of one-half mile from the subject site. There are no CERC-NFRAP facilities on the subject site.

The above referenced CERC-NFRAP facility was evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

National Priorities List

The U.S. EPA maintains this list as a subset of CERCLIS, identifying over 1,200 CERCLA sites for priority cleanup under the Superfund Program. Once sites have been designated on the CERCLIS list, the U.S. EPA uses its Hazard Ranking System to determine the potential risks of those sites to human health and the environment. Only the sites that present the greatest risk are added to the NPL, which qualifies the sites to receive CERCLA remedial funding.

Review of the NPL list provided by EDR identifies no NPL sites within the approximate minimum search distance of one mile from the subject site.

RCRA – Generators

The U.S. EPA's RCRA (Resource Conservation and Recovery Act, 42 U.S.C. '6991 *et seq.*) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. Generators are also listed in the FINDS database.

Review of the RCRA LQ-Generator list provided by EDR identifies a total of 11 RCRA-LQG sites listed. There is one former RCRA-LQG facility shown on the adjoining property to the west and none on the subject property.

The above referenced RCRA LQ-Generator facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Review of the RCRA SQ-Generator list provided by EDR identifies a total of 71 RCRA-SQG sites listed. There is one RCRA-SQG former tenant facility shown on the subject site and there is one RCRA-SQG facility on adjoining properties.

The above referenced RCRA SQ-Generator facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

RCRA - Treatment, Storage, Disposal Facilities (TSD)

The Resource Conservation and Recovery Act Information System (RCRIS) is a compilation of selective information on facilities that generate, store, transport, treat or dispose of hazardous waste. Inclusion of a facility on the RCRIS database is not necessarily an indication of an environmental problem.

Review of the RCRIS-TSD list provided by EDR identifies no RCRIS-TSD sites within the approximate minimum search distance of one mile from the subject site.

Emergency Response Notification System (ERNS)

The ERNS is a compilation of reported releases of hazardous substances into the environment. The database contains information from Spill reports made to federal authorities, including the U.S. EPA, the U.S. Coast Guard, the National Response Center, and the U.S. Department of Transportation.

Review of the ERNS list provided by EDR identifies a total of 10 ERNS sites listed. There are no ERNS facilities on the subject site.

The above referenced ERNS facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Underground Storage Tanks (USTs)

Certain USTs are regulated under the RCRA Act, and must be registered with the state agency responsible for administering the UST program. USTs are also listed in the CA FID database. Inclusion of a facility on the UST database is not necessarily an indication of an environmental problem.

Review of the current list provided by EDR identifies a total of 22 sites within a search radius of 1/4 mile. There are no facilities on the subject site and there is one former facility on adjoining property to the west. Leaking tanks are discussed in the following section.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Leaking Underground Storage Tanks (LUSTs)

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. LUSTs are also listed in the CORTESE database.

Review of the list provided by EDR identifies a total of 51 sites. There are 22 facilities within the ASTM standard minimum search distance of one-half mile from the subject site. Of the 51 sites, 45 are down gradient or cross gradient. The remaining six sites are closed cases, including the former LUST listing on the subject site. There are no LUST facility listings on the adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

The on site listing at Western Pulp and Paper, 9350 Hall Road, was a soil only gasoline case discovered during the removal of a 1000 gallon premium unleaded gasoline tank and a 15000 gallon diesel storage tanks in 1994. The case was closed August 20, 1996 and a closure letter from the California Regional Water Quality Control Board is appended.

Solid Waste Facilities/Landfills (SWF/LS)

Solid waste records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

Review of the list provided by EDR identifies a total of three sites within the ASTM standard

minimum search distance of one-half mile from the subject site. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

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.

Review of the list provided by EDR identifies a total of nine sites. There are five sites within the ASTM standard minimum search distance of one mile from the subject site. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

DEED (Institutional Controls)

Site Mitigation and Brownfield's Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfield's 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.

Review of the list provided by EDR identifies no sites within the approximate minimum search distance of one mile from the subject site.

California Hazardous Material Incident Reporting System (CHMIRS)

The California Office of Emergency Services database contains reported information on incidents involving accidental releases or spills of hazardous materials.

Review of the list provided by EDR identifies a total of five sites. There are no listed facilities on the subject site.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Hazardous Waste and Substances Sites List (CORTESE)

The Cal-EPA publishes a listing of potential and confirmed hazardous waste sites throughout the State of California. Under California Government Code Section 65962.5, these sites are submitted to the Cal-EPA by the State Department of Health Services, State Water Resources Control Board, the Integrated Waste Management Board and the Department of Toxic Substances Control.

The database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release, and all solid waste disposal facilities from which there is a known migration.

Review of the list provided by EDR identifies a total of 34 sites. There are 15 sites within the ASTM standard minimum search distance of one-half mile from the subject site. There are no facilities on the adjoining properties. The former LUST facility at 9350 Hall Road is also listed as a CORTESE site with no details.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

VCP (Voluntary Cleanup Program)

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Review of the list provided by EDR identifies only one site down gradient and at a lower elevation. There are no facilities on the subject site.

The above referenced facility was evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Hazardous Waste Information System (HAZNET)

The California Department of Health Services, Toxic Substances Control Division, has developed and maintained lists of hazardous waste generators and hazardous waste treatment, storage and disposal facilities in the State of California, in accordance with the Hazardous Waste Control Law (California Health and Safety Code Section 25100 *et seq*.) And the Hazardous Waste Management Act of 1976 (California Health and Safety Code Section 25179.1 *et seq.*). Inclusion of a facility in the HAZNET list is not necessarily an indication of an environmental problem.

Additionally, the California Health and Safety Code requires all counties to prepare and submit hazardous waste management plans. To assist the counties, the Toxic Substances Control Division maintains lists containing hazardous waste generation and disposal data within each county. The Toxic Substances Control Division has assembled this information from manifest reports required from hazardous waste generators. This database currently lists over 20,000 facilities in the State of California.

Review of the list provided by EDR identifies a total of 148 sites. The 9300 Building and 9400 Building at the subject site appear on the list as having disposed of small amounts of hazardous wastes in the past.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Historic USTs

The Hazardous Substance Storage Container Database is a historical listing of former UST sites that are closed and typically not listed with the current UST sites.

Review of the list provided by EDR identifies a total of 65 sites. The SWEEPS list, which is no longer maintained, lists the 9350 Building facility on the subject site. There is one former demised facility listed on the adjoining property to the west.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Dry Cleaners

This database provides a list of drycleaner facilities that have EPA ID numbers. These facilities have certain SIC codes including: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; dry cleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers and laundry and garment services.

Review of the list provided by EDR identifies a total of two sites. There are no facilities on the subject site and there are no facilities on adjoining properties.

The above referenced facilities were evaluated based on the following criteria: violator status, area geology, gradient relationship and separation distance. Based on this evaluation, and due to their regulated nature, it is believed that this does not represent an environmental concern to the subject site.

Waste Management Unit Database System (WMUDS/SWAT)

The California Integrated Waste Management Board maintains an inventory list of both open as well as closed and inactive solid waste disposal facilities and transfer stations in accordance with the Solid Waste Management and Resource Recovery Act of 1972, California Government Code Section 2.66790(b). Generally, the California Integrated Waste Management Board learns of locations of disposal facilities through permit applications and from local enforcement agencies. The Waste Management Unit Database System is used by the California Water Resources Control Board and the Regional Water Quality Control Boards for program tracking and inventory of waste management units.

Review of the latest WMUDS/SWAT listing identifies no WMUDS/SWAT facilities within the approximate minimum search distance of ½ mile from the subject site.

Manufactured Gas Plants (MGP)

Manufactured Gas Plants produced combustible gas for urban use prior to the widespread use

and pipeline distribution of natural gas in the 1950s. The main fuels used in production of this gas were coke, coal and oil; the by-products of this manufacturing process include a variety of tars, sludge and other chemicals.

MGP sites tend to have subsurface contamination due to the common practice of disposing of the waste products on site. Review of the MGP list provided by EDR identifies no MGP sites within the approximate minimum search distance of one mile from the subject site.

VII ASTM NON-SCOPE ITEMS

Asbestos

In 1977, the U.S. EPA acted to eliminate friable asbestos from building materials. Friable materials are defined as those that can be crushed or reduced to powder by hand pressure. Materials do not have to be damaged to be identified as friable. Additionally, the United States Occupational Safety and Health Administration (OSHA) now requires certain untested materials to be presumed to contain asbestos for buildings constructed prior to 1981.

During the site visit, AES observed reasonably accessible interior areas of the building for the existence and condition of suspect ACM. No building construction documents were provided for review. Asbestos can be identified only by specialized equipment and not by the unaided human eye. The site visit was not intended to be a comprehensive search for all ACM at the subject site.

Based on the construction date of 1951, and our observations, the present buildings are suspect for materials containing asbestos. The suspect materials include: spray acoustical ceiling materials, vinyl floor tiles, floor or roof mastic, drywall, insulation and transite materials. No sampling or analytical testing of ASTM Non-Scope items was completed. AES recommends the implementation of an asbestos operation and maintenance plan to manage the ACM.

Lead Based Paint

In 1978, the Consumer Product Safety Commission banned the use of lead as an additive in paint. During the site visit, accessible areas were observed for evidence of damaged and/or peeling paint. In general, the painted surfaces appeared to be in good condition. Based on the construction date of 1951, and our on-site observations the present buildings are suspect for containing lead based paint. As the improvements are used for non-residential purposes, the presence of lead based paint is considered to be a de minimis environmental condition.

Potable Water Supply

The subject site is serviced by a municipally operated, public water system, which is regulated by the Safe Drinking Water Act of 1974. This Act requires that public water supplies be tested for the presence of lead in water. AES contacted the local water utility company, the City of Downey, regarding the results of water tests. The utility company reports that the lead content of the water is below the U.S. EPA action level of 0.015 milligrams per liter.

Radon Gas

Radon gas is a naturally occurring, colorless, odorless gas that is the by-product of the decay of radioactive materials found within bedrock and soil. Radon gas enters buildings through

cracks, structural joints, and plumbing openings in floor levels that are in direct contact with the soil. Radon gas, when inhaled, has been found to be carcinogenic in some humans. The U.S. EPA recommended action level for radon gas is 4.0 pCi/L (picoCuries per liter).

The State of California, in conjunction with the U.S. EPA, has conducted residential screening tests in Los Angeles County. The results of that screening indicate that Los Angeles County is predicted to have an average indoor radon screening level of 0.711 pCi/L, with 100% of tests less than 4.0 pCi/L.

AES reviewed the U.S. EPA's Map of Radon Zones for California, which identifies Los Angeles County as being within Radon Zone 2. Counties within Radon Zone 2 have a predicted average indoor radon gas screening level of between 2 and 4 pCi/L.

Based on the literature reviewed, it is our opinion that the risk of radon gas accumulation is not a significant environmental concern at the subject site.

No sampling or analytical testing of ASTM Non-Scope items was completed

Wetlands

AES did not observe ponded water, flowing water, saturated soils or hydrophytic vegetation at the subject site.

Mold

AES observed portions of the exposed exterior and interior material surfaces of the improvements for signs of mold and/or mildew and none was observed. Based on the condition of these surfaces, the general quality of the exterior details to keep moisture out of the building and the general interior air quality observed in the improvements without the assistance of specialized testing equipment, mold and/or mildew were not an environmental concern to the subject property at the time of our site visit.

Please note that AES did not perform any probes behind surface materials, use moisture meters to test materials or use specialized equipment to test air quality for signs of existing mold and/or mildew. If further confirmation is required for determining if mold and/or mildew is present in the subject improvements AES recommends that a qualified Industrial Hygienist be retained to perform the necessary industry standard tests and provide a report of their findings.

VIII CONCLUSIONS

Findings and Opinion

AES completed a Phase I ESA for the site in substantial conformance with the scope and limitations of the Standard. Any exceptions to, or deletions from, the Standard are described in the Assessment.

Historical Recognized Environmental Conditions (HRECs)

Based on site observations, interviews and review of available documents and the database records search, AES concludes that several HRECs were identified at the subject site. The HRECs include the historic UST at the site, the 1994 LUST incident (now closed) and historic site use (manufacturing facility). AES recommends no additional investigation at this time.

Current Recognized Environmental Conditions (RECs)

Based on site observations, interviews and review of available documents and the database records search, AES concludes that one REC was identified at the subject site. Based on the building age, asbestos is suspected at the site. These materials can be managed in place using an asbestos operation and maintenance plan. AES recommends no additional investigation at this time.

de minimis Conditions

Based on site observations, interviews and review of available documents and the database records search, AES concludes that one *de minimis* condition was identified at the subject site. Based on the age of the buildings, lead based paint is suspected at the site. AES recommends no additional investigation at this time.

Conclusions

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations ASTM Practice E 1527-05 of 9300, 9350, 9400 Hall Road and 9301 Stewart and Gray Road, the *property*. Any exceptions to or deletions from, this practice are described in Section II of this *report.* This assessment has revealed no evidence of *recognized environmental conditions* with the *property* except for the following:

Based on age of the buildings, suspect asbestos containing may be present at the site.

IX INTERVIEWS

Name	Title/Affiliation	Phone
Mr. Jim Hilands	Owners Representative Heger Realty Corporation	(323) 727-1144
Mr. Phil Wijmer	Vice President of Operations Western Pulp and Paper	(562) 803-4401
Mr. Bill Franklin	Manager Duray/J.F. Duncan	(562) 862-4269
Mr. Brian Crossen	Plant Manager Omni Temp	(562) 923-9660
Mr. Danny Reavis	Operations Manager Hudd Distribution	(562) 674-2100
Staff	Building and Planning Departments City of Downey	Office Visit
Staff	Fire Department City of Downey	Office visit

X QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Richard E. Darwicki -Mr. Darwicki has over ten years of experience related to environmental assessments and over 30 years experience related to engineering matters. He has completed numerous Phase I Environmental Site Assessments throughout the United States. He is a Licensed Engineer in the State of California and attended Santa Ana College and Fullerton College.

Timothy K. Dahlstrand - Mr. Dahlstrand has over twenty-five years of experience related to environmental and engineering matters. He has completed and supervised hundreds of Phase I Environmental Site Assessments throughout the United States and internationally. He is a Registered Professional Engineer and Professional Geologist and holds a B.A. in Geology and an M.S. in Civil Engineering from Northwestern University.

Due Diligence, Inc.

Architectural/Environmental/Seismic Consultants

San Diego Office
9089 Clairemont Mesa Blvd.,
Suite 104
San Diego, CA 92123

877-732-3833
858-569-0211 ph.
858-569-0275 fax
lortiz@aesdd.com

Environmental Site Assessment Questionnaire

To be completed by a "key site manager" or someone knowledgeable about the subject site.

Site Name: Downey Industrial Center
Site Address: 9300, 9350, 9400 Hall Road/9301, 9363, 9399 Stewart & Gray Road
Date Provided: 11/14/2016

The following Environmental Questionnaire must be completed in its entirety. Do not leave any question unanswered. If a question is not applicable to the site, answer NA.

General Facility Information

Key Personnel

Position	Name	Telephone Number	Years at Site
Owner	Downey Industrial Center, LLC	(323) 727-1144	32
Building Manager	Heger Industrial/Randy Scott	(323) 727-1144	4
Other			

In the following tables describe the physical property, on-site services provided and tenants. Please include a map showing the subject site location and physical location of on-site facilities. Use additional sheets as required.

Property area: 1,270,216 sq. ft. Acres: 29.16

Building Description (for each building)

Address/Number	Age	Square Footage	No. of Floors	Elevator	Number of Tenants
9300 Hall Road 9301 Stewart & Gray Road	65	274,465	2	No	2
9400 Hall Road 9399 Stewart & Gray Road	65	163,049	2	No	2

Environmental Site Assessment Questionnaire

Current Tenant List (attach extra sheets if required)

Tenant Name	Operation	Dates
Omniteam 9300 Hall Road	Manufacturing	1985-Present
Duray 9301 Stewart & Gray	Manufacturing	1985-Present
Western Pacific Pulp & Paper, 9402 Hall Rd.	Recycling	1983-Present
88 Logistics 9399 Stewart & Gray	Storage/Logistics	2011-Present
EJ Lauren LLC 9400 Hall Road	Manufacturing	2015-Present

Former Tenant List (attach extra sheets if required)

Tenant Name	Operation	Dates
Hudd Transportation	Shipping/Logistics	1984-2011

Environmental Site Assessment Questionnaire

Do any of the following specific conditions exist on the site? If yes, please describe the condition.

Site Specific Conditions

Type	Yes	No	If Yes, Describe Location and Identify
Landfill, Dump Area, Junkyard		X	
Surface Impoundment or Retention Ponds		X	
Asbestos Containing Materials		X	
Asbestos O&M Plan		X	
Polychlorinated Biphenyls (PCBs)		X	
Radon		X	
Lead-based Paint (LBP)		X	
Aboveground or Underground Storage Tank(s), including septic		X	
Dry Cleaning		X	
Container/Drum Storage Area(s)		X	
Surface Staining		X	
Wetlands		X	
Flood Zone or Areas Subject to Flooding		X	
Wells (on-site monitoring, water supply or injection)		X	
Incinerator or Open Burning		X	

Has any fire, demolition or construction activity been conducted during the current tenancy (ies)?

Yes No If yes, date and description:
X

Site History

Property purchase date (current owner): 1982

Building construction date: 1951 By:

Building remodeling and addition dates:

List the previous owner(s): Date:

Date:

Date:

Describe past uses of the site and approximate dates of each use:

Date:

Date:

Environmental Site Assessment Questionnaire

Has any environmental work or reporting been conducted at the subject site? Yes No
Type of activity? Phase I
Date: April 13, 2007 By: AES Due Diligence
Date: By:

Has any environmental work or reporting been conducted at neighboring properties? Yes No
Type of activity? Unknown
Date: Address:
Date: Address:

Was any demolition or construction activity required prior to the construction of the current improvements? Yes No
If yes, date and description:

Is there any past experience or operation of any underground or aboveground storage tanks on the subject site? December 1994 Yes No
If yes, please complete the following table:

UST/AST Information					
Material Stored	Size	Age	Leak Detection	Corrosion Protection	Overfill Protection
N/A					

Is there any past existence or operations of an emergency electrical generator and/or fire pump on the subject site? Yes No
Fuel Type?
Describe fuel storage and location:

Is there any past existence or operation of automotive fueling, servicing, repairing, painting or washing activities on the subject site? Yes No
Describe the operations and disposition of waste products:

Environmental Site Assessment Questionnaire

Is there any past existence or operation of hydraulically operated elevators, automobile hoists or truck dock levelers on the subject site? Yes No

Describe location: Unknown

Have any historic operations on the subject site involved the generation, manufacture, processing, transportation, treatment, storage or handling of any of the following:

Petroleum products (fuels, solvents, waste oils, etc.)	Yes	(No)
Asbestos	Yes	(No)
Lead-based Paint	Yes	(No)
Hazardous Materials	Yes	(No)
Biohazardous Materials	Yes	(No)
Polychlorinated Biphenyls (PCBs)	Yes	(No)
If yes, describe the operations:		

Solid/Hazardous Waste Generation and Disposal

Identify all waste materials that the existing facility generates in addition to general municipal waste (garbage). Please identify recycles, hazardous or special waste products including, but not limited to, paper, cardboard, grease, solvents, waste oil, dry-cleaning solvents, medical wastes, photographic and x-ray development chemicals, lead-acid storage batteries, metals, tires, etc.

Waste Generation and Disposal

Waste Category	Description of Waste	Method of Storage	When Removed	Disposal Contractor
General				
Construction Debris				
Recyclable*				
Dry Cleaning*				
Other Hazardous*				
Waste Oil*				
Solvents*				
Other*				

None to Owners Knowledge

***Provide a copy of the most recent waste disposal records.**

Are any former tenants generators of hazardous waste? Yes (No)

If yes, describe the waste and their operation:

Environmental Site Assessment Questionnaire

Does the current owner or operator (or previous owner/operator) perform the following activities?

Discharge wastewater (including storm water, process and nonprocess water or sanitary waste?	Yes	No
Identify what is released and quantities:		
Store solid waste?	Yes	No
Store hazardous waste?	Yes	No
Waste water treatment?	Yes	No
Waste disposal operations?	Yes	No

Chemical and Material Storage

Chemical and Material Storage

Material/Chemical	Yes	No	MSDS	Quantity Stored	Description and Supplier
Flammable Material					
Gasoline and Fuel					
Dry Cleaning Solvent					
Hydraulic Oil					
Waste Oil					
Automotive Oil					
Grease					
Paints					
Solvents					
Corrosives					

Notification and Compliance

Has the owner of the property taken any of the following actions relative to the subject site?

Prepared a Chemical Safety Contingency Plan?	Yes	No
Filed an Emergency and Hazardous Chemical Inventory Form pursuant to the Federal Emergency Planning and Community Right-to-Know Act of 1986.	Yes	No
Filed a Toxic Chemical Release Form pursuant to the Federal Emergency Planning and Community Right-to-Know Act of 1986.	Yes	No
Maintained Material Safety Data Sheets (MSDS) on site.	Yes	No
Prepared a Spill Prevention Control and Countermeasure (SPCC) plan?	Yes	No
Conducted leak testing of storage tank piping and piping systems?	Yes	No

Please include copies of the above documents with the Questionnaire

Has the owner or operator of any facility on the subject site or the subject site itself been the subject of any of the following state or federal government actions?

Written notification regarding known, suspected or alleged contamination on or emanating from the subject site?	Yes	(No)
Environmental enforcement case or lawsuit.	Yes	(No)
Environmental Notice of Violation for any activities.	Yes	(No)
Names as Potentially Responsible Party (PRP) or Responsible Party in any environmental action.	Yes	(No)

If yes to any of the above, include documentation of the action and its resolution.

Environmental Releases during Ownership

Has any situation occurred at this site or neighboring sites that resulted in a reportable "release" of any hazardous substances or petroleum as required under state of federal laws. Yes (No)

If yes, please describe:

Have any hazardous substances or petroleum come into direct contact with the ground, ground water or surface water at this site? Yes (No)

If yes, please describe:

If the answers to questions above are "Yes", have any of the following actions or events been associated with a release on the subject site or neighboring sites? Yes (No)

Use of a cleanup contractor to remove or treat materials including soils, pavement or other surficial materials.	Yes	No
Designation, by State or Federal EPA of release as "significant".	Yes	No
Sampling and analysis of soils, ground or surface water.	Yes	No
Temporary or more long-term monitoring of ground water at or near the site.	Yes	No
Impaired usage of an on-site or nearby water well because of offensive characteristics of the water.	Yes	No
Coping with fumes from subsurface storm drains, sumps or basements, etc.	Yes	No
Signs of unusual stains, damaged vegetation or substances leaching out of the ground along the base of slopes or at other low points on or immediately adjacent to the site.	Yes	No
Is the facility currently operating under an environmental variance granted by a state or federal regulatory agency?	Yes	No
Do you have any environmental concerns regarding the past or current use of the subject or adjoining sites?	Yes	No

If yes, describe:

Utilities

Utility	Supplier
Electric Company	Southern California Edison
Natural Gas	Southern California Gas
Domestic Water	City of Downey
Irrigation Water	City of Downey
Sewer	City of Downey
Trash	N/A Private

Environmental Site Assessment Questionnaire Addendum:

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) **Regarding environmental cleanup liens that are filed or recorded against the site**, are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

☑ No
☐ Yes

(2.) **Regarding activity and land use limitations that are in place on the site or that have been filed recorded in a registry**, are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

☑ No
☐ Yes

(3.) **As the user of this ESA do you have any specialized knowledge or experience related to the property nearby properties?** For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☑ No
☐ Yes

(4.) **Regarding the relationship of the purchase price to the fair market value of the property if it were not contaminated,** does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

N/A
☐ No
☐ Yes

(5.) **Regarding commonly known or reasonably ascertainable information about the property,** are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

☑ No
☐ Yes

For example, as user,

(a.) Do you know the past uses of the property?

(b.) Do you know of specific chemicals that are present or once were present at the property?

(c.) Do you know of spills or other chemical releases that have taken place at the property?

(d.) Do you know of any environmental cleanups that have taken place at the property?

(6.) **Regarding the degree of obviousness of the presence of likely presence or contamination at the property, and the ability to detect the contamination by appropriate investigation,** as the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

☑ No
☐ Yes

Signed: _____ Title: Site Property Manager Date: 11/14/2016

Name: Randy Scott Company: Heger Industrial

Please return completed Questionnaires to the sender via facsimile or email.

APPENDIX E

REGULATORY AGENCY FILE REVIEW INFORMATION

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
2250 ALCAZAR STREET
LOS ANGELES, CALIFORNIA 90033
Telephone : (213) 226-4111

THOMAS A. TIDEMANSON, Director
WYNN L. SMITH, Chief Deputy Director
HIAM BARMACK, Assistant Director
JAMES L. EASTON, Assistant Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 4089
LOS ANGELES, CALIFORNIA 90051

IN REPLY PLEASE
REFER TO FILE
I-10632-1F

FEBRUARY 28, 1986

AEROJET ORDNANCE CO.
9236 E. HALL RD.
DOWNEY, CA. 90241

Attn: RICHARD H. SCHROEDER

Gentleman:

HAZARDOUS MATERIALS UNDERGROUND STORAGE
CLOSURE PERMIT(S) NO. 1065B
FACILITY AT: 9300 E. HALL RD., DOWNEY

This office has reviewed the soil sample/groundwater laboratory report submitted on FEBRUARY 18, 1986 required as part of the subject closure procedure.

We find that based on the information submitted, no further subsurface investigation is necessary. The storage tanks listed within the subject permit(s) are considered closed upon disposal of excavated soil (if applicable) as indicated below:

[ ] The use of soils removed during excavation is unrestricted and may be disposed of at an unclassified disposal facility.

[ ] Soils are not suitable as fill material and must be manifested and transported to a hazardous waste disposal facility permitted by the State Department of Health Services (DOHS) unless evidence is presented indicating DOHS has determined that the material may be disposed of at a less restricted facility. Copies of completed manifests shall be submitted to this office indicating legal disposal.

If you have any questions concerning these requirements please contact MIKE DZUBNAR at (213) 226-4015.

Very truly yours,

T.A. TIDEMANSON
Director of Public Works

for M. Michael Mohajer
Supervising Civil Engineer III
Engineering Services Division

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS SANITATION DIVISION
550 SOUTH VERMONT LOS ANGELES, CALIFORNIA 90020

OWNER:
NAME AEROJET ORDNANCE COMPANY
ADDRESS 9236 EAST HALL Rd. CITY DOWNEY STATE CA ZIP 90241

FACILITY:
NAME AEROJET LEASED FACILITY
SITE ADDRESS 9300 EAST HALL Rd. CITY DOWNEY CA ZIP 90241
MAILING ADDRESS SAME CITY STATE ZIP
CONTACT PERSON RICHARD SCHROEDER TITLE SUBCONTRACTS MANAGER PHONE 213 923 3511

CLOSURE REQUESTED:
☐ TEMPORARY (REFER TO CONDITIONS A AND B ON BACK OF THIS FORM)
EFFECTIVE DATE OF CLOSURE
DATE OPERATION WILL RESUME
☒ PERMANENT, TANK(S) REMOVAL DISPOSAL DESTINATION 795 TODD AVE AZUSA
(REFER TO CONDITIONS A AND C ON BACK OF THIS FORM)
☐ PERMANENT, TANK(S) IN PLACE
(REFER TO CONDITIONS A AND D ON BACK OF THIS FORM)

TANK(S) DESCRIPTION: (ATTACH ADDITIONAL LIST IF NECESSARY.)

TANK NO.	MATERIAL	AGE (YEARS)	CAPACITY (GAL)	MATERIALS STORED (PAST AND PRESENT)
1	STEEL	15	10,000	DIESEL OIL

	YES	NO
HAS ANY UNAUTHORIZED DISCHARGE EVER OCCURRED AT THIS SITE?	☐	☒
HAVE STRUCTURAL REPAIRS EVER BEEN MADE ON THESE TANKS?	☐	☒
WILL NEW UNDERGROUND TANKS BE INSTALLED FOLLOWING CLOSURE?	☐	☒
WILL ANY WELLS, INCLUDING MONITORING WELLS, BE ABANDONED?	☐	☒

IF THE RESPONSE TO ANY OF THE ABOVE QUESTIONS IS YES, ATTACH EXPLANATION.

BY SIGNATURE BELOW THE APPLICANT CERTIFIES THAT HE/SHE HAS READ AND UNDERSTANDS THE CONDITIONS ON THE REVERSE SIDE OF THIS FORM AND THAT THE STATEMENTS AND DISCLOSURES ABOVE ARE TRUE AND CORRECT.

APPLICANT'S SIGNATURE Margaret H Evans DATE 1-20-86
OWNER ☐ OPERATOR ☐ CONTRACTOR J. D. BRODINE & SON INC
STATE LICENSE NO. 425319

TO BE COMPLETED BY THE COUNTY ENGINEER

BY SIGNATURE BELOW APPLICANT IS GRANTED APPROVAL TO PROCEED WITH THE CLOSURE.

FEE COLLECTED $ 38.00
PERMIT NO 100608
FILE NO 10632 R/C IF

DATE 1-21-86

TO ARRANGE FOR AN INSPECTION, TELEPHONE 804-2584 (8-9 AM)

JERRY WONG & JEFF LENZ

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS SANITATION DIVISION
550 SOUTH VERMONT LOS ANGELES, CALIFORNIA 90020

OWNER:
NAME AEROJET ORDNANCE COMPANY
ADDRESS 9236 EAST HALL ROAD CITY DOWNEY STATE CA ZIP 90241

FACILITY:
NAME AEROJET LEASED FACILITY
SITE ADDRESS 9300 EAST HALL ROAD CITY DOWNEY ZIP 90241
MAILING ADDRESS SAME CITY , STATE ZIP
CONTACT PERSON RICHARD SCHROEDER TITLE SUB CONTRACT MANAGER PHONE 213 922 7511

CLOSURE REQUESTED:
☐ TEMPORARY (REFER TO CONDITIONS A AND B ON BACK OF THIS FORM)
EFFECTIVE DATE OF CLOSURE
DATE OPERATION WILL RESUME
☐ PERMANENT, TANK(S) REMOVAL DISPOSAL DESTINATION
(REFER TO CONDITIONS A AND C ON BACK OF THIS FORM)
☒ PERMANENT, TANK(S) IN PLACE
(REFER TO CONDITIONS A AND D ON BACK OF THIS FORM)

TANK(S) DESCRIPTION: (ATTACH ADDITIONAL LIST IF NECESSARY.)

TANK NO.	MATERIAL	AGE (YEARS)	CAPACITY (GAL)	MATERIALS STORED (PAST AND PRESENT)
1A 1B	CONCRETE	20	1600	WATER + OIL
11	CONCRETE	20	500	WATER + OIL
12	CONCRETE	20	400	WATER + OIL
9	CONCRETE	20	14000	WATER + OIL
10	CONCRETE	20	280	OIL + GREASE + WATER

	YES	NO
HAS ANY UNAUTHORIZED DISCHARGE EVER OCCURRED AT THIS SITE?	☐	☒
HAVE STRUCTURAL REPAIRS EVER BEEN MADE ON THESE TANKS?	☐	☒
WILL NEW UNDERGROUND TANKS BE INSTALLED FOLLOWING CLOSURE?	☐	☒
WILL ANY WELLS, INCLUDING MONITORING WELLS, BE ABANDONED?	☐	☒

IF THE RESPONSE TO ANY OF THE ABOVE QUESTIONS IS YES, ATTACH EXPLANATION.

BY SIGNATURE BELOW THE APPLICANT CERTIFIES THAT HE/SHE HAS READ AND UNDERSTANDS THE CONDITIONS ON THE REVERSE SIDE OF THIS FORM AND THAT THE STATEMENTS AND DISCLOSURES ABOVE ARE TRUE AND CORRECT.

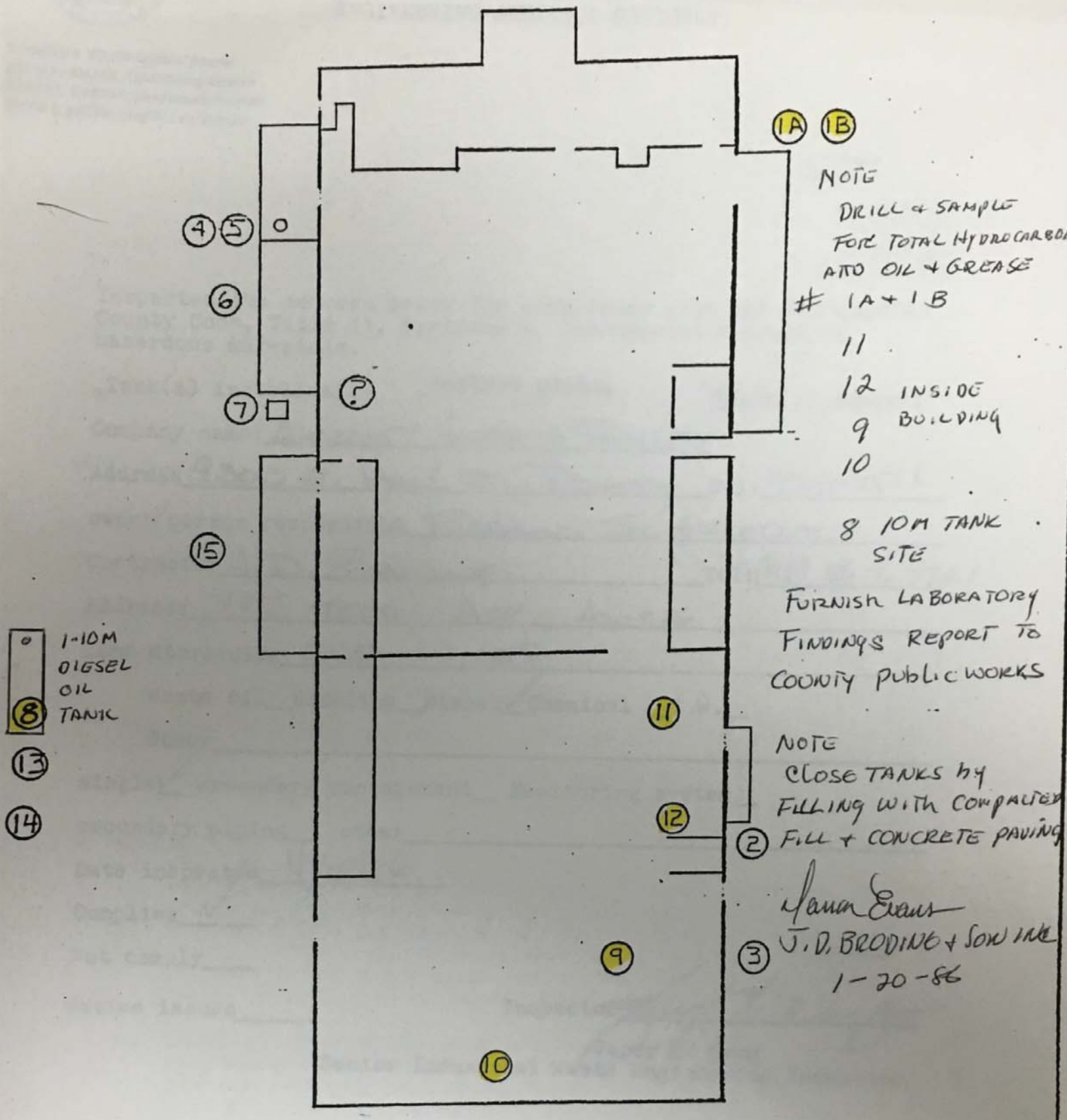
APPLICANT'S SIGNATURE [signature] DATE 1-20-86
OWNER ☐ OPERATOR ☐ CONTRACTOR J. D. BRODINE & SON INC
STATE LICENSE NO. 425319

TO BE COMPLETED BY THE COUNTY ENGINEER

BY SIGNATURE BELOW APPLICANT IS GRANTED APPROVAL TO PROCEED WITH THE CLOSURE.

FEE COLLECTED $ 190.00
PERMIT NO 10658
FILE NO 10632 R/C 1F

[signature] DATE 1-21-86
TO ARRANGE FOR AN INSPECTION, TELEPHONE



NOTE
DRILL & SAMPLE FOR TOTAL HYDROCARBONS ATTO OIL & GREASE
1A + 1B
11
12 INSIDE
9 BUILDING
10
8 10M TANK SITE

FURNISH LABORATORY FINDINGS REPORT TO COUNTY PUBLIC WORKS

NOTE
CLOSE TANKS by FILLING WITH COMPACTED FILL + CONCRETE PAVING

Jana Evans
J. D. BRODING & SON INC
1-20-86

BOMAN INDUSTRIES
DOWNEY, CA.

SAMPLE POINTS ○

DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

THOMAS A. TIDEMANSON, Director
HIAM BARMACK, Chief Deputy Director
JAMES L. EASTON, Chief Deputy Director
WYNN L. SMITH, Chief Deputy Director

IN REPLY PLEASE
REFER TO FILE

I- 10632-1F

P- 1066B

Inspected the address below for compliance with the Los Angeles County Code, Title 11, Division 4, underground storage of hazardous materials.

_Tank(s) installation _Replace piping X Tank(s) removal

Company name: AEROJET LEASED FACILITY

Address 9300 E. HALL RD., DOWNEY Tel: 923-7571

owner/person responsible RICHARD SCHREDER

Contractor J.D. BROOME Tel: (818) 967-7741

Address: 795 TODD AVE., AZUSA

Tank Store: size ONE- 10,000

Waste oil__ Gasoline__ Diesel✓ Chemical __ I.W.__

Other_____

single✓ secondary containment__ Monitoring system.__

secondary piping__ other_____

Date inspected 1/30/86

Complies ✓

Not comply____

Notice issued_____

Inspector

Jerry K. Wong
Senior Industrial Waste Engineering Inspector

16600 Civic Center Drive, Suite 200, Bellflower, Ca. 90706
(213) 804-2584

AEROJET ORDNANCE COMPANY
9236 EAST HALL RD • DOWNEY, CA 90241 • 213 923-7511 • TELEX 67-3599

8230:86:08
RHS:sg

17 January 1986

F.D. Bodine & Son, Inc.
795 Todd Avenue
Azusa, CA 91702

Attention: Mr. Darron H. Evans
President

Subject: Information Relevant to obtaining a permit from Los Angeles County Department of Public Works Industrial Waste.

Gentlemen:

To obtain the necessary permit(s) from the Los Angeles County Department of public works regarding the Aerojet leased facility at 9300 East Hall Road Downey, CA, we apprise you as follows:

1.0 OCCUPANCY

1973-1983 Bowman Industries, an Electronic Inporter of Automotive Stereo Equipment.

1971-1973 Building was Vacant

Prior 1971 Aerojet, a Manufacturer of Aerospace Metal casement parts. (Machining Operations)

2.0 HISTORY

2.1 Regretably, there are no records available germane to Processing fluids and fluid disposal from any of the tenants, however, discussions with the Landlord and a few remaining Senior Employees revealed that no toxic solutions were used in the Manufacturing Processes by any of the Tenant, and further that the last Tenant, Bowman Industries did not use the tanks or sumps at all.

2.2 Basically, the Occupants prior to Bowman Industries were Aerojet and Rheem Manufacturing Company, both of which were engaged in Aerospace Machining Operations. The Machining Operations presumably, required the use of cutting oils and De-Greasing fluids which are of the Standard Non-Toxic variety used for many years without change.

3.0 OBSERVATIONS

From outward appearances and inspections, by Aerojet's Safety and Industrial Engineering personnel, the conclusions are that there is no evidence of the use of toxic or hazardous chemicals by previous tenants of the facility. The building is considered totally safe and hazard free for renovations and occupancy by Aerojet Ordnance Company.

In the event you require more elaboration or perhaps have other suggestions, please call us at your earliest opportunity.

Regards

Aerojet Ordnance Company
Richard H. Schroeder
Subcontracts Manager

Enclosure(s)
1. Smith-Emery Test Results
2. Smith-Emery Letter

cc: Wes Carter
A.A. Miller
Ron Hliwa
Jim Honea

A Geological Systems
Evaluation Company

February 13, 1986

Edward F. Bolton
Donald R. Chance
Jerry D. Horne
W. Douglas Leys
I. Joseph Moriarty
John B. Sheehy
Fritz Thornburgh

F. D. Brodine & Sons, Inc.
795 Todd Avenue
Azusa, CA 91702

Attn: Mr. Darron H. Evans,
President

Subject: Test Borings, Areo Jet, Downey

Gentlemen:

On January 29, 1986 and Febraury 6, 1986, five test borings were drilled adjacent to the sumps as per plot plan. The resultant chemcial analysis from the samples reveal no contamination. The results from sample #26861 reflect the presence of asphalt particles contained in the fill material logged.

Thank you.

Donald R. Chance
Project Geologist
Reg. Haz-Mat Mng. #402

DRC/dh

237 South Waterman Avenue • San Bernardino California 92408 • Telephone 714 • 885 • 7072

A Geological Systems
Evaluation Company

February 13, 1986

Edward F. Bolton
Donald R. Chance
Jerry D. Horne
W. Douglas Leys
J. Joseph Moriarty
John B. Sheehy
Fritz Thornburgh

TEST BORING LOGS

Location:		USCS		Sample
#10 Sump				
0 - 5'	Grey silty fine sand	GM		129861
5 - 10'	Grey silty fine sand	GM		129862
10 - 20'	Grey silty, clayey sand	SM		129863
20 - 25'	Grey silty, clayey sand	SM		
25 - 30'	Grey medium sand	GM		129864
30 - 39'	Grey medium sand	GM	combo	129865
39 - 40'	Black, grey silty clay	OL		
#9 Sump				
0 - 5'	Grey silty fine sand	GM		129866
5 - 10'	Grey silty fine sand	GM		129867
10 - 20'	Grey silty, clayey sand	SM		129868
20 - 25'	Grey silty, clayey sand	SM		
25 - 30'	Grey medium sand	GM		129869
30 - 39'	Grey medium sand	GM	combo	129870
39 - 40'	Black, grey silty clay	OL		
#12 Sump				
0 - 5'	Grey silty fine sand	GM		129871
5 - 10'	Grey silty fine sand	GM		129872
10 - 20'	Grey silty clayey sand	SM		129873
20 - 30'	Grey silty clayey sand	SM		129874
30 - 39'	Grey medium sand	GM	combo	129875
39 - 40'	Blackish grey silty clay	OL		
#11 Sump				
0 - 5'	Redish brown fine gravel/sand			130861
5 - 10'	Grey silty fine sand	GM		130862
10 - 20'	Brown silty clayey sand	SM		130863
20 - 30'	Grey medium, fine sand	GM		130864
30 - 39'	Grey medium, fine sand	GM	combo	130865
39 - 40'	Black, grey silty clay	OL		

237 South Waterman Avenue • San Bernardino California 92408 • Telephone 714 • 885 • 7072

#1A and 1B Sump

0 - 5'	Brown fill pavement, concrete and gravel		26861
5 - 10'	Grey silty sand	GM	26862
10 - 20'	Grey clayey silty sand	SM	26863
20 - 30'	Grey medium sand	GM	26864
30 - 40'	Grey fine sand	GM	26865

ChemPet Research — CPR

CONSULTING GEOCHEMISTS AND PETROLOGISTS

P.O. Box 6248, Thousand Oaks, CA 91360 • (805) 496-5947 / (805) 498-9919

February 7, 1986

GeoSec, Inc.
237 S. Waterman Ave.
San Bernardino, CA 92408

Attention: Mr. D. Chance

Our firm has analyzed 20 soil samples for total hydrocarbons by ASTM D3921. The results are enclosed.

Sincerely,

RW Hurst

Dr. Richard W. Hurst
Senior Partner

ChemPet Research — CPR

CONSULTING GEOCHEMISTS AND PETROLOGISTS

P.O. Box 6248, Thousand Oaks, CA 91360 • (805) 496-5947 / (805) 498-9919

Results for samples received 1/31/86 (ASTM 3921)

Sample No.	Total Hydrocarbons (ppm)
129861	9.1
129862	16.2
129863	1.1
129864	10.3
129865	1.0
129866	6.3
129867	5.4
129868	0.9
129869	1.2
1298610	39.3
1298611	1.2
1298612	5.0
1298613	0.9
1298614	0.9
1298615	1.2
130861	0.8
130862	1.0
130863	7.1
130864	5.9
130865	53.1

ChemPet Research — CPR

CONSULTING GEOCHEMISTS AND PETROLOGISTS

P.O. Box 6248, Thousand Oaks, CA 91360 • (805) 496-5947 / (805) 498-9919

February 12, 1986

Geo-Sec
237 S. Waterman Ave.
San Bernardino, CA 92408

ATTENTION: Mr. Donald Chance

We have performed total hydrocarbon analyses on five (5) samples submitted by your company on February 6, 1986. The results are tabulated below:

Sample No.	Total Hydrocarbons (ppm) *
26861	333.0
26862	15.8
26863	1.5
26864	18.4
26865	15.5

* Detection limits < 0.5 ppm

The method employed is EPA 418.1 for total petroleum hydrocarbons by IR.

Sincerely yours,

Terry E. Davis

Terry E. Davis, Ph.D.
Senior Partner

Hunter's Point Shipyard Bldg. 114, Box 65
3148 East La Palma Avenue
• San Francisco, California 94124
• Anaheim, California 92806
• (213) 749-3411
• (415) 822-8880
• (714) 630-4910

January 14, 1986

Aerojet Ordnance Company
9236 East Hall Road
Downey, California 90241

Attention: Mr. Richard Schroeder

Dear Mr. Schroeder:

Smith-Emery Company recommended testing the contents of the underground storage facilities (tank, pits, sumps and clarifiers) at the Boman property based on two factors:

The type of contamination normally expected in a machine shop operation

The analyses required for California disposal sites.

The analyses included tests for heavy metals, pH, oil and grease and flash point.

Please contact me if there are any questions concerning this analysis.

Sincerely,

Jack Carmody

JACK CARMODY, DIRECTOR
ENVIRONMENTAL & CHEMICAL DEPARTMENT

JC/tm

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

G	1A	1B	2	4	6	7	8	9	10	11	12	13
	<1	<1	1.3	2.1	<1	1.9	<1	<1	<1	<1	<1	1.7
	<1	<1	<1	<1	<1	1.9	2.7	<1	<1	3.4	<1	3.7
	<1	2.9	<1	36.5	2.1	4.6	<2	<1	<1	<1	<1	2.5
	2.7	45.7	<1	2056	8.7	201	3.8	<1	<1	12.2	<1	10.2
	1.1	74.6	3.0	1065	12.3	75	9.3	<1	1.5	1.2	<1	16.4
	2.3	2.0	5.0	118.7	12.7	34.6	11.2	<1	<1	<2	<1	3.6
	<0.2	0.8	<0.2	28.1	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	<2.0	4.5	2.1	540	6.4	17.2	5.9	<1	<1	6.0	<1	11.4
	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1
	<1.0	5.3	2.0	34.3	<1.0	20.4	3.6	<1	<1	<1	<1	<1
	12.4	154.0	519	3150	145.6	84.8	58.1	<1	7.2	8.0	<1	30.7
	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
(7)	>212	>212	>212	--	--	>212	--	>212	>212	>250	>212	--
	6.4	7.0	5.2	7.0	7.5	6.9	--	7.5	7.8	7.8	8.1	--
/L	38	52,000	103	1560	34	15,300	--	7.6	19,800	--	16	--

(4)

G/KG

430,000

<10

14	15										
2.3	<1										
3.6	<1										
2.0	<1										
9.5	3.5										
12.4	<1										
3.6	1.1										
<0.2	<0.2										
9.5	<1										
<1	<1										
<1	<1										
27.6	1.6										
<1	<1										
--	>212										
--	7.5										
--	109										

<10

781 East Washington Boulevard • Los Angeles, California 90021 • (213) 749-3411
Hunter's Point Shipyard Bldg. 114, Box 65 • San Francisco, California 94124 • (415) 822-8580
3148 East La Palma Avenue • Anaheim, California 92806 • (714) 630-4910

FOR: AEROJET ORDNANCE COMPANY
9236 EAST HALL ROAD
DOWNEY, CA 90241
ATTN: MR. RICHARD SCHROEDER

August 23, 1985

JOB NO: 4028

REPORT NO: 2

LABORATORY NO: 592341

SUBJECT: Analysis of various materials -P.O.# 65569-D

SAMPLE: Various liquids, sludges and soils from the Boman building, 9300 East Hall Road, Downey, California taken by Smith-Emery Company representative 7/31/85

PROCEDURE: U.S.E.P.A. SW846 - (1) Method 3030, (2) 7061, (3) 7471, (4) 418.1, (7) ASTM D-93, (8) pH of Soil/Sludge (1:1)

RESULTS:

Sample No	Identification	Contents	Container Total Volume (c.f.)	Container Contents (c.f.)
1A	Clarifier	Liquid/Trash	150	50
1B	Clarifier	Liquid/Trash	150	120
2	Drain Line	Liquid	---	---
3	Drain Line	Liquid	---	---
4	Pit	Dirt	50	0
5	Deep Sump	None	---	---
6	Trench	Dirt/Trash	650	80
7	Clarifier	Sludge/Liquid	110	80
8	Tank (10 K Gal)	Water/Oil	---	30
9	Sump	Liquid	2050	560
10	Pit	Liquid	40	30
11	Sump	Liquid/Sludge	80	40
12	Clarifier	Liquid/Sludge	60	40
13	---	Soil Sample	---	---
14	---	Soil Sample	---	---
15	Clarifier	Liquid/Sludge	130	80

Respectfully Submitted,
SMITH-EMERY COMPANY

J. C. CARMODY, DIRECTOR
ENVIRONMENTAL & CHEMICAL LABORATORY

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD.05.23.8.42.6 — Manifest Document No. —
2. Page 1 of — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Arcuel 9236 [illegible] Downey, CA 90241
4. Generator's Phone (213) 9237511

A. State Manifest Document Number: 84943647
B. State Generator's ID:

5. Transporter 1 Company Name: United Pumping Service, Inc.
6. US EPA ID Number: CAD072953771
C. State Transporter's ID: 063 62715
D. Transporter's Phone: (818) 961-9326

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: [illegible] Mt. [illegible] CA 93429
10. US EPA ID Number: CAD020748125
G. State Facility's ID: CAD020748125
H. Facility's Phone:

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous Waste Liquid N.O.S. 9189 ORM-E	001	TT	3,000	G	222
b. Oil 3% Water 90%					
c. Mud 7%					
d.					

J. Additional Descriptions for Materials Listed Above:

K. Handling Codes for Wastes Listed Above: 1C

15. Special Handling Instructions and Additional Information: Gloves. Goggles.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
DARRON H. EVANS	Darron H. Evans	1 2 1 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
GREG MARISCAL DARRON H. EVANS	Greg Mariscal Darron H. Evans	1 2 1 2 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
GREG MARISCAL	Greg Mariscal	1 2 1 3 85

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. #65931-36260 lbs.

Printed/Typed Name	Signature	Date (Month Day Year)
CASMALIA Resources	Alice Griest Alice Griest	1 21 3 85

GENERATOR — TRANSPORTER — FACILITY

84943647

EPA Form 8022 A (11/84) (EF 8700-22)

YELLOW TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

84 89641

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

August 20, 1996

Mr. Jack Wunderlich
P.O. Box 241
Downey, CA 90241

C 171390

UNDERGROUND STORAGE TANK CASE CLOSURE
WSTERN PACIFIC PULP & PAPER
9350 HALL ROAD, DOWNEY (I-13583)

Dear Mr. Wunderlich,

This letter confirms the completion of the site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location.

Based on the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please contact our office if you have any questions regarding this matter.

Sincerely,

ROBERT P. GHIRELLI, D. Env.
Executive Officer

DAVID G. DEANER
Acting Assistant Executive Officer
Underground Tanks Section

L 120161

13262-13583-1F

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.
SIGNED: [signature] DATE: JAN 19 1995

REPORT DATE: 01/17/95 CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: David Esfandi PHONE: (818) 458-3510 SIGNATURE: D Esfandi
REPRESENTING ☒ LOCAL AGENCY ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ OTHER
COMPANY OR AGENCY NAME: LA Co. Dept. of public works
ADDRESS: 900 S Fremont Ave CITY Alhambra STATE CA ZIP 91803

RESPONSIBLE PARTY
NAME: Western Pacific Pulp & Paper ☐ UNKNOWN CONTACT PERSON: Jack Wunderlich PHONE: (310) 803-4401
ADDRESS: P.O. Box 4279 CITY Downey STATE CA ZIP 90241

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Western Pacific Pulp & Paper OPERATOR: Jack Wunderlich PHONE: (310) 803-4401
ADDRESS: 9350 STREET Hall Rd. CITY Downey COUNTY LA ZIP 90241
CROSS STREET: Firestone Blvd.

IMPLEMENTING AGENCIES
LOCAL AGENCY AGENCY NAME: LA Co. DPW CONTACT PERSON: Carl SJoberg PHONE: (818) 458-3539
REGIONAL BOARD: LA Region CONTACT PERSON: AL Novak PHONE: (213) 266-7551

SUBSTANCES INVOLVED
(1) NAME: TPH = 18200, BTXE 1.49/0.158/2.23/1.92 QUANTITY LOST (GALLONS): ☐ UNKNOWN
(2) NAME: ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 01/17/95 HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 01/17/95
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☐ OTHER

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ OTHER

CASE TYPE
CHECK ONE ONLY: ☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☒ NO ACTION TAKEN ☐ LEAK BEING CONFIRMED ☐ REMEDIATION PLAN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ POLLUTION CHARACTERIZATION ☐ POST CLEANUP MONITORING IN PROGRESS ☐ CLEANUP UNDERWAY

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ CONTAINMENT BARRIER (CB) ☐ VACUUM EXTRACT (VE) ☐ EXCAVATE & DISPOSE (ED) ☐ EXCAVATE & TREAT (ET) ☐ NO ACTION REQUIRED (NA) ☒ OTHER (OT) unknown at this time ☐ REMOVE FREE PRODUCT (FP) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ TREATMENT AT HOOKUP (HU) ☐ ENHANCED BIO DEGRADATION (IT) ☐ REPLACE SUPPLY (RS) ☐ VENT SOIL (VS)

COMMENTS
The site is being refered to local oversite program

HSC 25 (11/88)

USE ONLY

STATE ID #

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

(X) 01 NEW PERMIT ( ) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION,INDIVIDUAL OR PUBLIC AGENCY)	PUBLIC AGENCY ONLY
WESTERN PACIFIC PULP AND PAPER, INC.	( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL

STREET ADDRESS	CITY	STATE	ZIP
1811 Santa Rita Road, Suite #208-A	Pleasanton	CA	94566

II FACILITY

FACILITY NAME	DEALER/FOREMEN/SUPERVISOR
WESTERN PACIFIC PULP AND PAPER, INC.	Jack Wunderlich
STREET ADDRESS: 9350 Hall Road	NEAREST CROSS STREET: Hall Road and Bellflower

CITY	COUNTY	ZIP
Downey	Los Angeles	90241

MAILING ADDRESS	CITY	STATE	ZIP
P.O. Box 4279	Downey	CA	90241

PHONE W/AREA CODE	TYPE OF BUSINESS
213 803-4401	( ) 01 GASOLINE STATION (X) 02 OTHER Waste Paper Plant

NUMBER OF CONTAINERS	RURAL AREAS ONLY :	TOWNSHIP	RANGE	SECTION
2				

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE	NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE
Wunderlich, Jack 213 803-4401	Schaefer, Jim 213 862-6990

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

A. (X) 01 TANK ( ) 02 OTHER:	CONTAINER NUMBER
1) Gasoline Tank 2) Diesel Tank	.001 .002

B. MANUFACTURER (IF APPROPRIATE):	YEAR MFG:	C. YEAR INSTALLED (X) UNKNOWN
UNK		

D. CONTAINER CAPACITY	E. DOES THE CONTAINER STORE:
1,000 Gallons 15,000 GALLONS ( ) UNKNOWN	( ) 01 WASTE (X) 02 PRODUCT (X) 02 Product

F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (X) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
(X) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM (X) 04 DIESEL ( ) 05 WASTE OIL ( ) 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (X) UNKNOWN

B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) ( ) 02 NON-VAULTED (X) 03 UNKNOWN

C. ( ) 01 DOUBLE WALLED ( ) 02 SINGLE WALLED ( ) 03 LINED

D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
(X) 12 UNKNOWN ( ) 13 OTHER:

DEPARTMENT OF PUBLIC WORKS
1540 ALCAZAR STREET
LOS ANGELES, CALIFORNIA 90033
Telephone: (213) 226-8111

THOMAS A. TIDEMANSON, Director
WYNN SMITH, Chief Deputy Director
CECIL BUGH, Assistant Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 4089
LOS ANGELES, CALIFORNIA 90051

IN REPLY PLEASE REFER TO FILE: I-13583-1F

December 29, 1987

Western Pacific Paper & Pulp
9350 Hall Road
Downey, CA 90241

HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT (HMUSP) REQUEST
FACILITY AT: 9350 HALL ROAD

This office is unable to process your Provisional HMUSP because of deficiencies or omissions in your application. You are required to submit to this office the requirement(s) checked below within 15 days from the date of this letter.

[ ] Complete Permit Application Supplement (Provisional).
[ ] Submit permit fee and/or State surcharge.

[x] Complete a separate Application for Permit to Operate Underground Storage Tank form for each tank.
[ ] Provide verification of present safe storage of each tank. Verification consists of either: (1) results of a recent tank integrity test; (2) records from an inventory control program; or, (3) the owner's signed statement indicating that to the best of the owner's knowledge no unauthorized releases have occurred at the facility and that tank integrity tests will be performed within 90 days of the date of the application.
[ ] Other: _____

Submittal of proposals for Leak Detection/Monitoring programs is not a necessary requirement for issuance of a Provisional HMUSP. However, applicants are advised that acceptable Leak Detection/Monitoring programs must be submitted and implemented within six months from issuance of the Provisional HMUSP.

If you require additional information concerning the Provisional HMUSP, please contact Mr. Martin Moreno at (213) 226-5930.

Very truly yours,

T. A. TIDEMANSON
Director of Public Works

By Martin Moreno
Waste Management Division

RQ601 8/86

FACILITY/SITE INFORMATION
COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM
- [ ] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [ ] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [X] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: WESTERN PACIFIC PULP & PAPER **FARM TANK - YES** [ ] **NO** [X]

I. TANK DESCRIPTION **COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY**

A. OWNERS TANK ID # 2	B. MANUFACTURED BY: unknown
C. YEAR INSTALLED unknown	D. TANK CAPACITY IN GALLONS: 15,000

II. TANK CONTENTS **IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.**

A.
- [X] 1 MOTOR VEHICLE FUEL
- [ ] 2 PETROLEUM
- [ ] 3 CHEMICAL PRODUCT
- [ ] 4 OIL
- [ ] 5 HAZARDOUS
- [ ] 80 EMPTY
- [ ] 95 UNKNOWN

B.
- [X] 1 PRODUCT
- [ ] 2 WASTE

C.
- [ ] 1 UNLEADED
- [ ] 2 LEADED
- [X] 3 DIESEL
- [ ] 4 GASAHOL
- [ ] 5 JET FUEL
- [ ] 6 AVIATION GAS
- [ ] 7 METHANOL
- [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. # C.A.S. #:

III. TANK CONSTRUCTION **MARK ONE ITEM ONLY IN BOX A, B, C, & D**

A. TYPE OF SYSTEM
- [X] 1 DOUBLE WALLED
- [ ] 2 SINGLE WALLED
- [ ] 3 SINGLE WALLED WITH EXTERIOR LINER
- [ ] 4 SECONDARY CONTAINMENT
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

B. TANK MATERIAL
- [X] 1 STEEL/IRON
- [ ] 2 STAINLESS STEEL
- [ ] 3 FIBERGLASS
- [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CONCRETE
- [ ] 6 POLYVINYL CHLORIDE
- [ ] 7 ALUMINUM
- [ ] 8 100% METHANOL COMPATIBLE FRP
- [ ] 9 BRONZE
- [ ] 10 GALVANIZED STEEL
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

C. INTERIOR LINING
- [ ] 1 RUBBER LINED
- [ ] 2 ALKYD LINING
- [ ] 3 EPOXY LINING
- [ ] 4 PHENOLIC LINING
- [ ] 5 GLASS LINING
- [ ] 6 UNLINED
- [X] 95 UNKNOWN
- [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO
- [ ] 99 OTHER

D. CORROSION PROTECTION
- [ ] 1 POLYETHLENE WRAP
- [ ] 2 TAR OR ASPHALT
- [ ] 3 VINYL WRAP
- [ ] 4 FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CATHODIC PROTECTION
- [ ] 91 NONE
- [X] 95 UNKNOWN
- [ ] 99 OTHER

IV. PIPING INFORMATION CIRCLE **A** IF ABOVE GROUND, **U** IF UNDERGROUND, **BOTH IF APPLICABLE**

A. SYSTEM TYPE	(A U) 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
B. CONSTRUCTION	(A U) 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	A U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
C. MATERIAL	(A U) 1 STEEL/IRON	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE	A U 91 NONE	
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL CLAD W/FRP	A U 8 100% METHANOL COMPATIBLE FRP		
	A U 9 GALVANIZED STEEL	A U 95 UNKNOWN	A U 99 OTHER			

V. LEAK DETECTION SYSTEM CIRCLE **P** FOR PRIMARY, OR **S** FOR SECONDARY, **A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.**

P (S) 1 VISUAL CHECK P S 2 INVENTORY RECONCILIATION P S 3 VADOSE WELLS P S 4 ELECTRONIC MONITOR P S 5 GROUND WATER MONITORING WELLS
P S 6 PRECISION TESTING (P) S 7 PRESSURE TESTING P S 91 NONE P S 95 UNKNOWN P S 99 OTHER SEE ENCLOSED

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
Jack Wundelrich	11/30/89

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FILE #	TANK ID #
19	000	001	013583	

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
00000000002		

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:

TANK — UNDERGROUND STORAGE TANK PROGRAM

FACILITY/SITE INFORMATION
COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM: [ ] 1 NEW PERMIT [ ] 2 INTERIM PERMIT [ ] 3 RENEWAL PERMIT [ ] 4 AMENDED PERMIT [X] 5 CHANGE OF INFORMATION [ ] 6 TEMPORARY TANK CLOSURE [ ] 7 PERMANENTLY CLOSED TANK [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: WESTERN PACIFIC PULP & PAPER — FARM TANK - YES [ ] NO [X]

I. TANK DESCRIPTION — COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID # 1
B. MANUFACTURED BY: Unknown
C. YEAR INSTALLED 1983
D. TANK CAPACITY IN GALLONS: 1,000

II. TANK CONTENTS — IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A. [X] 1 MOTOR VEHICLE FUEL [ ] 2 PETROLEUM [ ] 3 CHEMICAL PRODUCT [ ] 4 OIL [ ] 5 HAZARDOUS [ ] 80 EMPTY [ ] 95 UNKNOWN

B. [X] 1 PRODUCT [ ] 2 WASTE

C. [X] 1 UNLEADED [ ] 2 LEADED [ ] 3 DIESEL [ ] 4 GASAHOL [ ] 5 JET FUEL [ ] 6 AVIATION GAS [ ] 7 METHANOL [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. # — C.A.S. #:

III. TANK CONSTRUCTION — MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM: [X] 1 DOUBLE WALLED [ ] 2 SINGLE WALLED [ ] 3 SINGLE WALLED WITH EXTERIOR LINER [ ] 4 SECONDARY CONTAINMENT [ ] 95 UNKNOWN [ ] 99 OTHER

B. TANK MATERIAL: [X] 1 STEEL/IRON [ ] 2 STAINLESS STEEL [ ] 3 FIBERGLASS [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC [ ] 5 CONCRETE [ ] 6 POLYVINYL CHLORIDE [ ] 7 ALUMINUM [ ] 8 100% METHANOL COMPATIBLE FRP [ ] 9 BRONZE [ ] 10 GALVANIZED STEEL [ ] 95 UNKNOWN [ ] 99 OTHER

C. INTERIOR LINING: [ ] 1 RUBBER LINED [ ] 2 ALKYD LINING [ ] 3 EPOXY LINING [ ] 4 PHENOLIC LINING [ ] 5 GLASS LINING [ ] 6 UNLINED [X] 95 UNKNOWN [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO [ ] 99 OTHER

D. CORROSION PROTECTION: [ ] 1 POLYETHILENE WRAP [ ] 2 TAR OR ASPHALT [ ] 3 VINYL WRAP [ ] 4 FIBERGLASS REINFORCED PLASTIC [ ] 5 CATHODIC PROTECTION [ ] 91 NONE [X] 95 UNKNOWN [ ] 99 OTHER

IV. PIPING INFORMATION — CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	(A) U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 91 NONE	A U 95 UNKNOWN A U 99 OTHER
B. CONSTRUCTION	(A) U 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	A U 91 NONE	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL Both	(A) U 1 STEEL/IRON	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE	A U 91 NONE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL CLAD W/FRP	A U 8 100% METHANOL COMPATIBLE FRP	
	A U 9 GALVANIZED STEEL	A U 95 UNKNOWN	A U 99 OTHER		

V. LEAK DETECTION SYSTEM — CIRCLE P FOR PRIMARY, OR S FOR SECONDARY, A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P (S) 1 VISUAL CHECK P S 2 INVENTORY RECONCILIATION P S 3 VADOSE WELLS P S 4 ELECTRONIC MONITOR P S 5 GROUND WATER MONITORING WELLS
P S 6 PRECISION TESTING (P) S 7 PRESSURE TESTING P (S) 91 NONE P S 95 UNKNOWN P S 99 OTHER PLS. SEE ENCLOSED

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)
2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS
3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE): Jack Wunderlich — DATE: 11/30/89

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FILE #	TANK ID #
19	000	001	013583	

CURRENT LOCAL AGENCY FACILITY ID #: 00000000002 — APPROVED BY NAME — PHONE # WITH AREA CODE

PERMIT NUMBER — PERMIT APPROVAL DATE — PERMIT EXPIRATION DATE

CHECK # — PERMIT AMOUNT — SURCHARGE AMT. — FEE CODE — RECEIPT # — BY:

FACILITY/SITE INFORMATION

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☒ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY SITE CLOSURE ☐ 7 PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS — (MUST BE COMPLETED)

FACILITY/SITE NAME: WESTERN PACIFIC PAPER & PULP	CARE OF ADDRESS INFORMATION: P.O. Box 4279
ADDRESS: 9350 HALL RD	NEAREST CROSS STREET: Woodruff/Firstn ☒ Box to indicate CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL AGENCY ☐ COUNTY AGENCY ☐ STATE AGENCY ☐ FEDERAL AGENCY
CITY NAME: DOWNEY	STATE: CA; ZIP CODE: 90241; SITE PHONE #, WITH AREA CODE: (213) 803-4401
TYPE OF BUSINESS: ☐ 1 GAS STATION ☐ 2 DISTRIBUTOR ☐ 3 FARM ☐ 4 PROCESSOR ☒ 5 OTHER; ✓ Box if INDIAN RESERVATION or TRUST LANDS ☐	EPA ID #: 5203; # of TANK's AT THIS SITE: 2
EMERGENCY CONTACT PERSON (PRIMARY)	**EMERGENCY CONTACT PERSON (SECONDARY)**
DAYS: NAME (LAST, FIRST): Wunderlich, Jack; PHONE # WITH AREA CODE: (213) 803-4401	DAYS: NAME (LAST, FIRST): Orsino, Ralph; PHONE # WITH AREA CODE: (213) 803-4401
NIGHTS: NAME (LAST, FIRST): Wunderlich, Jack; PHONE # WITH AREA CODE: (818) 249-0814	NIGHTS: NAME (LAST, FIRST): Orsino, Ralph; PHONE # WITH AREA CODE: (213) 439-1664

II. PROPERTY OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: Heger Realty Corporation	CARE OF ADDRESS INFORMATION:
MAILING or STREET ADDRESS: 4433 E. Telegraph Road	✓ Box to Indicate ☒ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY
CITY NAME: Los Angeles, CA 90023	STATE: ; ZIP CODE: ; PHONE #, WITH AREA CODE:

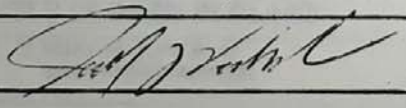
III. TANK OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: WESTERN PACIFIC PAPER & PULP	CARE OF ADDRESS INFORMATION: P. O. Box 4279
MAILING or STREET ADDRESS: 9350 HALL RD	✓ Box to Indicate ☐ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY
CITY NAME: DOWNEY	STATE: CA; ZIP CODE: 90241 0000; PHONE #, WITH AREA CODE:

IV. LEGAL NOTIFICATION AND BILLING ADDRESS

CHECK ONE (1) BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR BOTH LEGAL NOTIFICATION AND BILLING: I. ☒ II. ☐ III. ☐

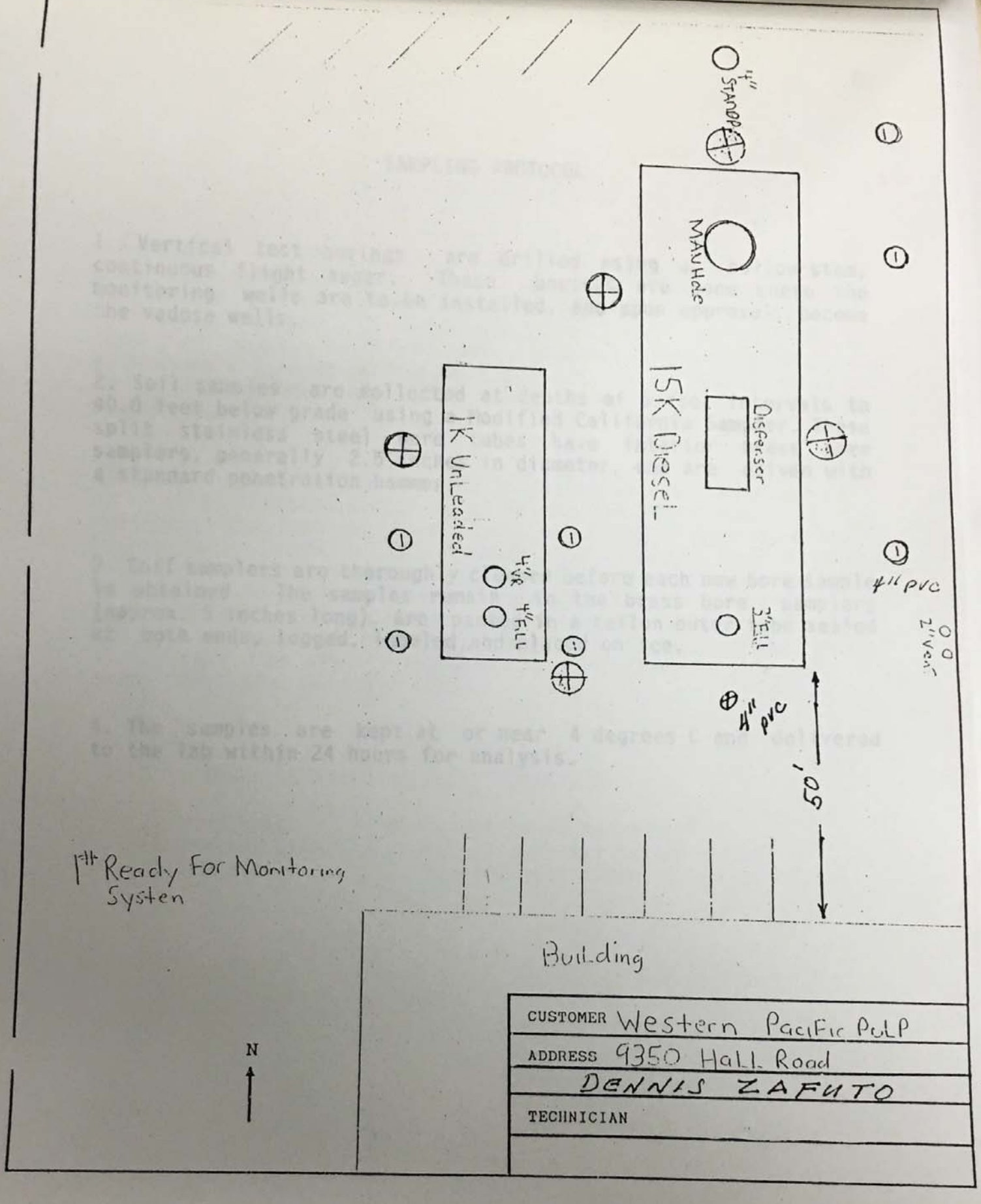
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
Jack Wunderlich 	11/30/89

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FILE #	# of TANKS at SITE
19	000	001	013583	

CURRENT LOCAL AGENCY FACILITY ID #: 00000000000		APPROVED BY NAME		PHONE # WITH AREA CODE	
PERMIT NUMBER: 00005203	PERMIT APPROVAL DATE: 08/10/87	PERMIT EXPIRATION DATE			
LOCATION CODE: 1 F	CENSUS TRACT #	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED ☐ YES ☐ NO	DATE FILED	
CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT #	BY:


4" STANDPIPE
MANHole
15K Diesel
Dispenser
2" FILL
1K Unleaded
4" VR
4" FILL
4" PVC
2" VENT
4" PVC
105'
1st Ready For Monitoring Systen
Building
N
CUSTOMER Western Pacific PulP
ADDRESS 9350 Hall Road
DENNIS ZAFUTO
TECHNICIAN

MWO

WESTERN PACIFIC PULP AND PAPER
INCORPORATED

201319

RECEIVED
MAR 2 8 1992
WASTE MANAGEMENT DIVISION

March 20, 1992

Mr. Michael Omafray
Waste Management Division
COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
900 South Fremont Avenue
Alhambra, CA 91803-1331

Subject: File No. WM-1
I-13583-IF

Dear Mr. Omafray:

We are in receipt of your March 16th letter regarding Notice of Non-Compliance Hazardous Materials Underground Storage Permit (HMUSP) facility at 9350 Hall Road.

Enclosed is a copy of Mr. Martin Moreno's notice of December 29, 1987 and our response to same. This notice did not require tank integrity tests; however, we did complete the tests in January of 1989, as required by Mr. John Huff's notice of December 14, 1988.

We also completed the required Form A, Form B and sent copies of the Tank Integrity Tests on December 4, 1989, (Copies Enclosed).

We obtained proposals for the LDP and TMP per enclosed copy, but due to the costs involved, have been monitoring the tank levels daily.

We will complete the new Form A and B as required by your April 6, 1992 deadline, but would require an extension to complete the LDP/TMP Installation if the type in the proposal is of minimum requirement.

Please contact me at (310) 803-4401 if the enclosed information is not as you require.

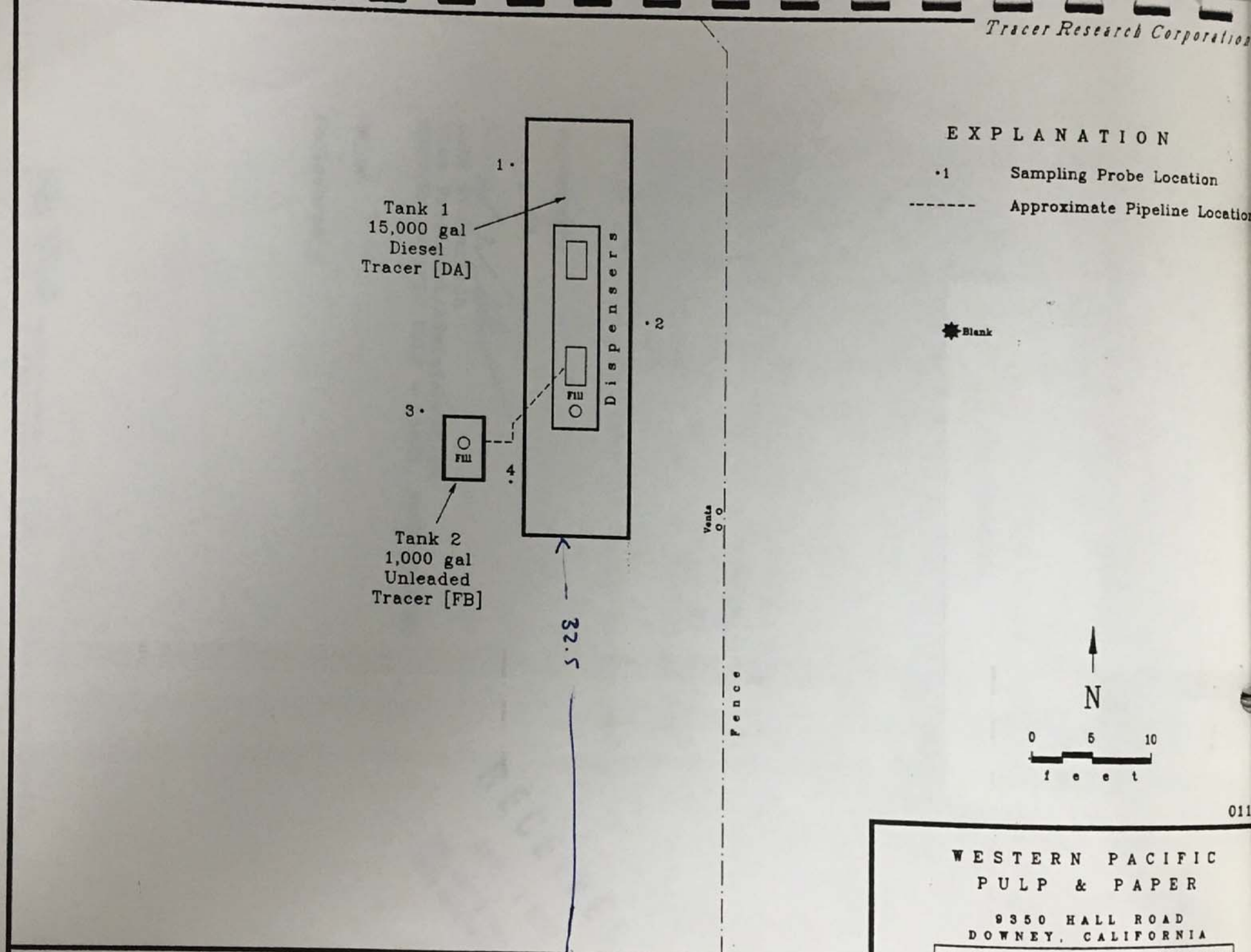
Sincerely,

Jack Wunderlich
Vice President/Administration
WESTERN PACIFIC PULP & PAPER, INCORP

Healy is out of business. Need new LDP/TMP?

JW/lm
Encl. 3

9350 HALL ROAD POST OFFICE BOX 4279 DOWNEY, CALIFORNIA 90241 (213) 803-4401
FAX 213 803 6365 TELEX ITT 499 7362



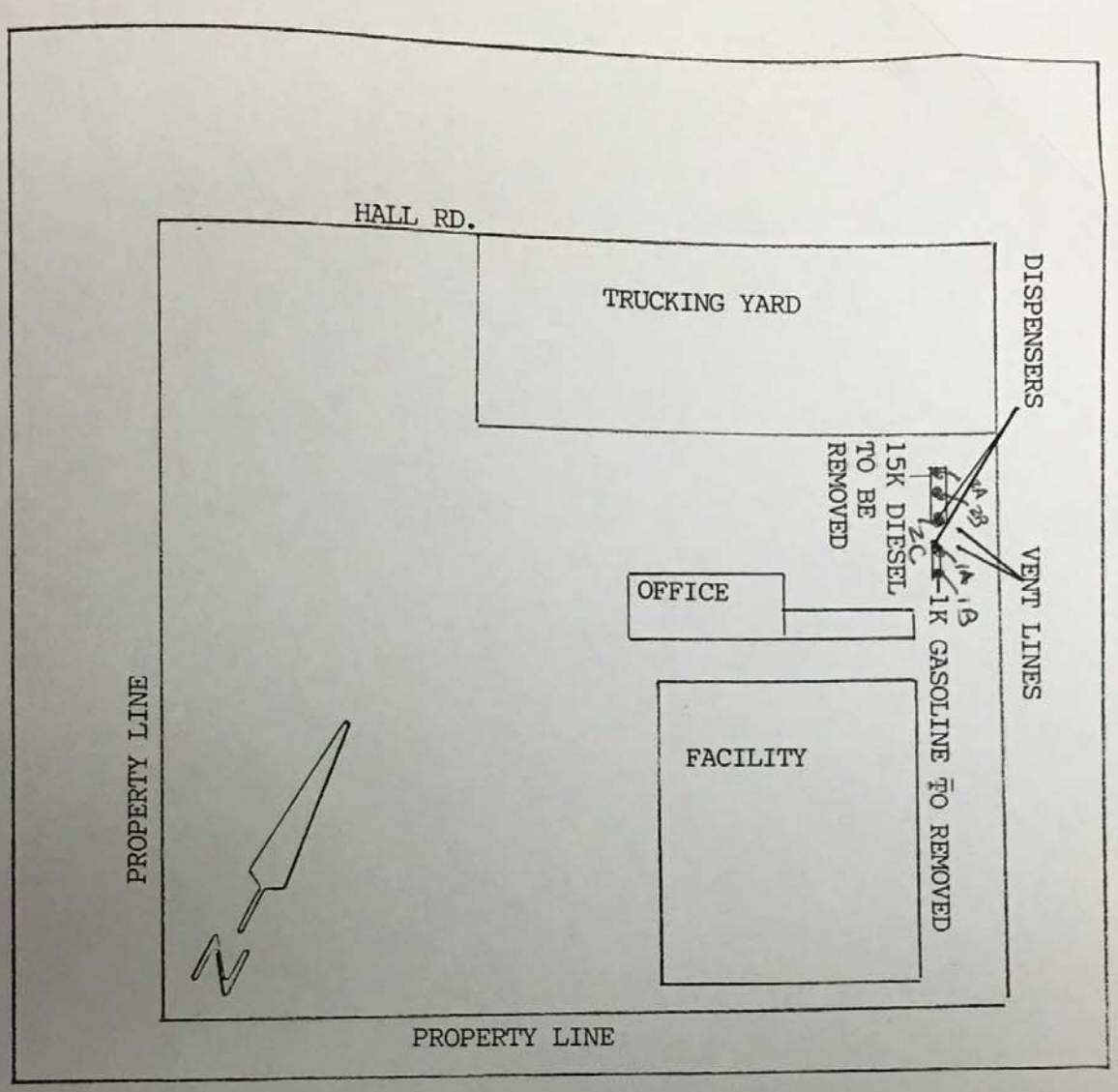
011

WESTERN PACIFIC
PULP & PAPER

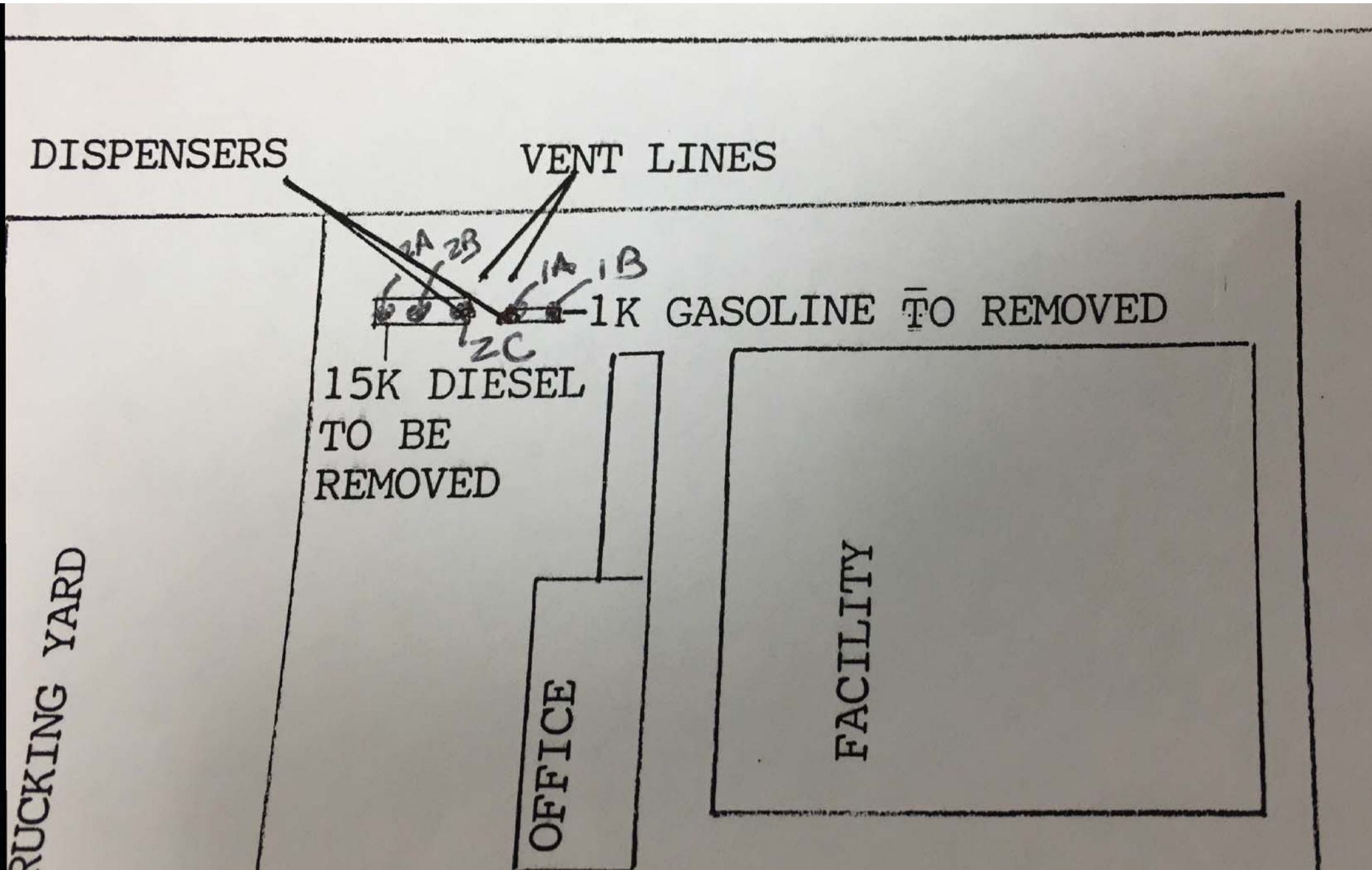
9350 HALL ROAD
DOWNEY, CALIFORNIA

SAMPLING LOCATIONS

Figure 1



WESTERN PULP & PAPER
9350 HALL RD.
DOWNEY, CA. 90241


DISPENSERS
VENT LINES
2A
2B
1A
1B
1K GASOLINE TO REMOVED
2C
15K DIESEL
TO BE
REMOVED
FACILITY
OFFICE
RUCKING YARD

CLOSURE PERMIT SUPPLEMENT
HAZARDOUS MATERIALS UNDERGROUND STORAGE
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CA 91803

Closure Permit No.: 112143 B
File No. I- 13583

PART 1 OF 2

To satisfy the permanent closure requirements for underground storage tanks previously storing hazardous materials, site integrity must be demonstrated by the analysis of soil samples and, if applicable, groundwater samples as outlined below. These requirements are in addition to the conditions listed on the Application for Closure or contained in an approved Closure Plan.

1. Samples shall be obtained at the sampling points (SP) indicated on the attached plot plan.

2. For each SP, samples shall be obtained at the following depths:

SP	Depth(s)	Compounds	Analysis Method
2A, 2B, 2C, 1A & 1B	2'-4' below tank	TPH, BTEX	8015(M), 8020
under disp.	2' below	"	"
under piping @ 20' intervals start @ disp.	2' below	"	"

dn4/FPERMIT Rev. 3/90

Cont'd on Page 2

APPLICATION FOR CLOSURE
HAZARDOUS MATERIALS UNDERGROUND STORAGE
COUNTY OF LOS ANGELES-DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331

Permit 112148 B
File 13583 R/C 1F
Fee $ 275
Check [X] Cash [ ]

OWNER: Name Western Pacific Pulp & Paper Phone
Mailing Address 9350 Hall Street City Downey State CA Zip 90241

FACILITY:
Occupant Name Western Pacific Pulp & Paper Phone (213) 727-1144
Site Address 9350 Hall Street City Downey Zip 90241
Mailing Address Same City State Zip
Contact Person Jack Hager Title

CONTRACTOR [X], complete below: OWNER/OPERATOR AS CONTRACTOR [ ]
Name Amherst Environmental Engineering Phone (714) 228-2088
State License No. 475595 Class H, B, Haz

CLOSURE REQUESTED:
[X] PERMANENT, TANK REMOVAL (See Conditions A and C Attached)
How many underground tanks will remain after this closure?
[ ] PERMANENT, CLOSURE IN PLACE (See Conditions A and D Attached)
[ ] TEMPORARY (See Conditions A and B Attached)

TANK DESCRIPTION: PLOT PLAN ATTACHED [ ] EXISTING HMUSP NO.

DPW#

Tank No.	Tank Mat'l	Age	Capacity	Materials Stored (Past/Present)
2 2	Steel	UNKNOWN	15,000.-	Diesel
1 1	Steel	"	1,000.	Unleaded gasoline

COMPLETE THE FOLLOWING:

	YES	NO
Has an unauthorized release ever occurred at this site?	[ ]	[X]
Have structural repairs ever been made to these tanks?	[ ]	[X]
Will new underground tanks be installed after closure?	[ ]	[X]
Will any wells, including monitoring wells, be abandoned?	[ ]	[X]

NOTICE: CONTAMINATED TANKS AND RESIDUES THAT MAY BE LEFT IN TANKS TO BE CLOS MAY BE A HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT T CHAPTER 6.5, CALIFORNIA HEALTH & SAFETY CODE. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations attached.

Applicant's Signature Dara L. Hendrix Date 10/19/94
(Print Name) Dara L. Hendrix Phone (714) 228-2088
Owner [ ] Operator [ ] Contractor [X]

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HEREE GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS [X]. THIS PERMIT EXPIRES 180 DAYS FROM THE DATE BELOW.

T.A. TIDEMANSON
Director of Public Works
By Mandy K Drew Date 10/24/94

GLD (LOP) CENTRAL

L.A. COUNTY DPW — HAZARDOUS MATERIALS SYSTEM — REPORT: HMR050.002

DATE COMPILED: 05/25/93 — TANKS INSPECTION JOB ORDER — INSP#: I000114435

RUN DATE: 11/15/94 14:20:52 — CLOSURE BY REMOVAL — ASSC#: A000112148

PAGE: 1

FILE #: 013262-013583 NAME: WESTERN PACIFIC PAPER & PULP
ADD: 9350 HALL RD
DOWNEY, CA 90241 AREA: 1F SMD: 95
XSTREET: WOODRUFF AVE THOMAS GUIDE: 0060-D5
CONTACT: WUNDERLICH, JACK TEL: 310 803 4401

PROC: SAMPLE REQUIRED? N SAMPLE #: _____

INSP INFO: CLOS 1/1K GS, 1/15K DSL 11/22/94 1:PM TO AMR
AMWEST ENV., CHARLIE, 714-228-2088

PERM TYPE: T 0 TANK OPERATING PERMIT # OF TANKS: 2 STATUS: PERMITTED

	FREQUENCY	LAST PERFORMED	NEXT DUE
INSPECTION	36	08/19/93	08/10/96
SAMPLE			
SELF-MONITOR			

ASSGN TO: BELLFLOWER FIELD OFFICE SECT: FIELD INSPECTION UNIT

TANK #	OWNER TANK ID #	CAPACITY (GAL)	CONTENTS
001	1	1,000	PREMIUM UNLEADED GASOLINE
CON:	SINGLE WALLED		LDS: TANK TESTING
002	2	15,000	DIESEL
CON:	SINGLE WALLED		LDS: TANK TESTING

==========

RESULTS: 2 TANKS REMOVED: 15K (3 SAMPLES TAKEN); 1K (2 SAMPLES TAKEN). A FAINT GASOLINE ODOR DETECTED AS SAMPLES WERE TAKEN

REMARKS: TIME CHARGES: 362, 3 HOURS

INSPECTOR: Jesse J VAZQUEZ INSPECTION DATE: 11/22/94

DISP: _____

LOP

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

INDUSTRIAL WASTE/HAZARDOUS MATERIALS UNDERGROUND STORAGE
CLOSURE INSPECTION REPORT

Date 11/22/94

Facility Name WESTERN PACIFIC PAPER & PULP File No. I- 013583 - 1F

Site Address 9350 HALL ST, DOWNEY Permit No. 11 2148

Contact Person JACK HEGER Phone (213) 727-1144

Type Inspection: [✓] Tank(s) & Piping [ ] Sump(s)
[ ] Tank(s) only [ ] Closure in place
[ ] Piping only [ ] Other

Contractor AMWEST Environmental Eng., JULIO SILVA Phone (714) 228 - 2088

Samples by JULIO SILVA, FIELD TECHNICIAN Phone (714) 228 - 2088

Geologist RAMESH SHAH, AMWEST ENV. ENG Phone (714) 228 - 2088

Industrial Hygienist — Phone (—) —

Items closed:

Type (tank/sump)	Contents	Capacity	Proper Sampling [yes]	Proper Sampling [no]	Perm Removal	Perm In-place
1. TANK	GAS	1000-gallon	[✓]	[ ]	[✓]	[ ]
2. TANK	DIESEL	15K	[✓]	[ ]	[✓]	[ ]
3.			[ ]	[ ]	[ ]	[ ]
4.			[ ]	[ ]	[ ]	[ ]

Observations:	[yes]	[no]	
Visual contamination observed	[ ]	[✓]	
Sampling of excavated soil required	[ ]	[✓]	
Tanks structurally sound	[✓]	[ ]	
Tanks remaining on site	[ ]	[✓]	How many 0 Monitor sys. N/A
Sampling conducted by DPW	[ ]	[✓]	Attach Chain-of-Custody
Notice issued	[ ]	[✓]	Attach copy of Notice

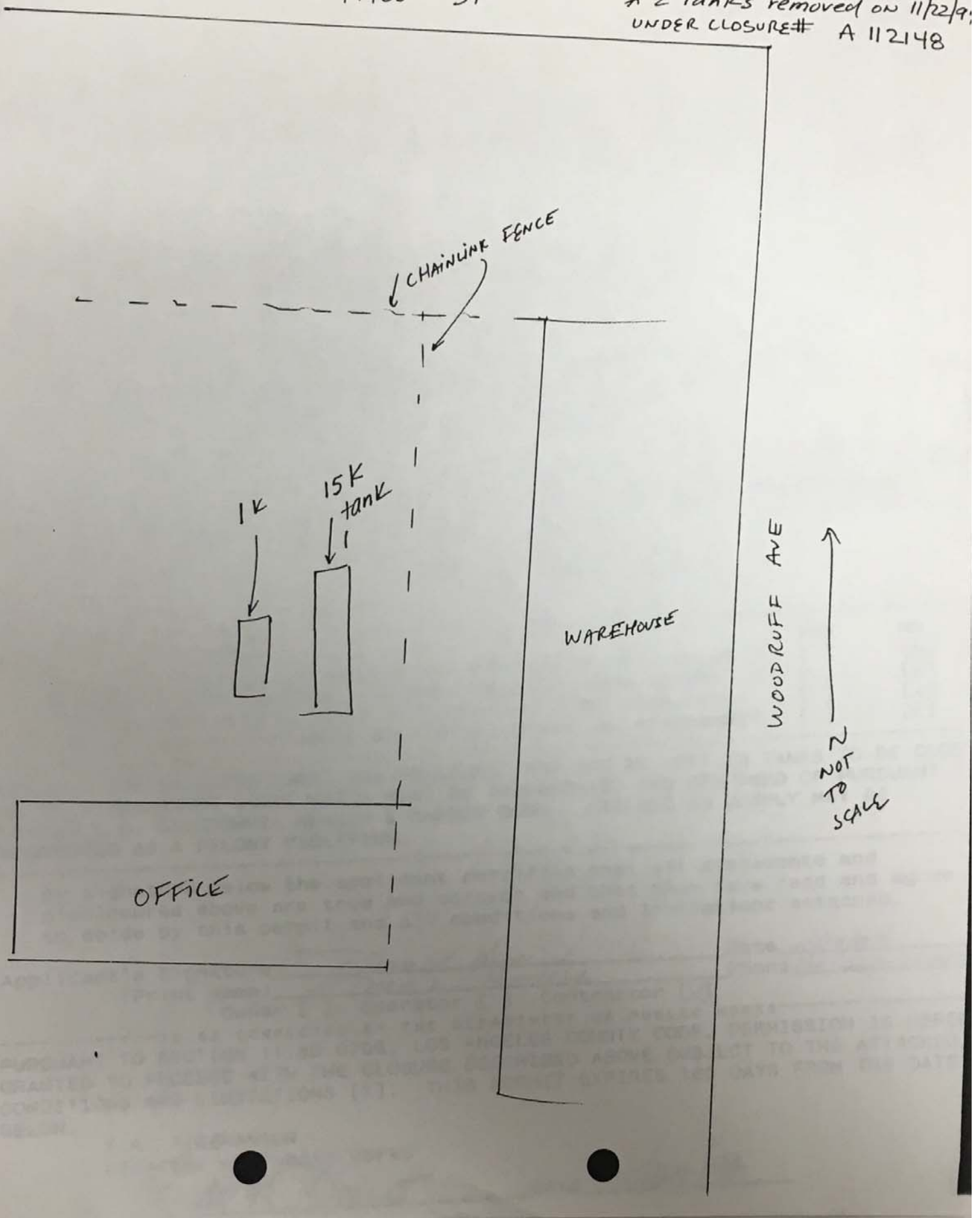
Comments: A TOTAL OF 5 SOIL SAMPLES (3 UNDER 15K; 2 UNDER 1K). A SLIGH GASOLINE ODOR WAS DETECTED AS THE SAMPLES WERE BEING TAKEN

Include a detailed site survey on the reverse of this form. (YES)

Inspector JESSE J VAZQUEZ Date 11/22/94

38-0027 DPW 4/91

WESTERN PACIFIC PAPER & PULP
9350 HALL RD, DOWNEY
013260 - 013583 - 1F
* 2 TANKS removed on 11/22/9
UNDER CLOSURE# A 112148



Certified Unified Program Agency • Participating Agency

INSPECTION REPORT

T Provost
LA County Fire Dept.
7300 Alondra BL #203
Paramount 90723

BUSINESS: Hudd Distribution Services Inc	OWNER: Hudd Distribution Services Inc	DATE: 08/05/2001
ADDRESS: 9400 Hall Rd, Downey 90241		FA 13184

The following items, if applicable, have been inspected. This document constitutes a Summary of Violations and Notice to Comply if the violation (V) column is checked. *Reference: Titles 19 and 22 of the California Code of Regulations (CCR), Chapters 6.5, 6.67, and 6.95 of the Health and Safety Code (HSC), and Titles 11 and 12 of the Los Angeles County Code (Co Ord)*

HAZARDOUS WASTE GENERATOR				HAZARDOUS WASTE GENERATOR			
	V	SUBJECT	SECTION		V	SUBJECT	SECTION
1		Hazardous waste determination	CCR 66262.11	24		Manifest copies retained for 3 years	CCR 66262.40(a)
2		Proper disposal of hazardous waste	HSC 25189.5 (a)	25		Consolidated manifest requirements	HSC 25160.2
3		Maintain/operate to prevent release/fire	CCR 66265.31	26		Hazardous waste transported by registered hauler	HSC 25163(a)
4		Hazardous waste labeling	CCR 66262.34(f)	27		LDR documents retained onsite	CCR 66268.7(a)(6)
5		Hazardous waste accumulation time	CCR 66262.34(a-d)	28		Hazardous waste analysis retained for 3 years	CCR 66262.40(c)
6		Hazardous materials storage and labeling	CCR 66261.2(f)	29		Personnel training	CCR 66265.16
7		Satellite accumulation	CCR 66262.34(e)	30		Contingency plan	CCR 66265.51
8		Containers leaking or not in good condition	CCR 66265.171	31		Emergency preparedness/prevention	CCR 66265.30-.37
9		Hazardous waste containers closed	CCR 66265.173(a)	32		Source Reduction requirements for LQGs	CCR 67100.3
10		Separation of incompatibles	CCR 66265.177	33		Biennial Report requirements	CCR 66262.40-.41
11		Retrograde/accumulated speculatively	CCR 66260.10	34		Excluded recyclable material management	HSC 25143.2/.9
12		Empty containers	CCR 66261.7	35		Recyclable Material Report	HSC 25143.10
13		Used oil management	CHSC 25250.4	36		Site assessment requirements	HSC 25187(a)(1)
14		Used oil filter management	CCR 66266.130	37		Closure requirements	CCR 66265.111/114
15		Used battery management	CCR 66266.81	38		Reckless management of hazardous waste	HSC 25189.6
16		Contaminated textile management	HSC 25144.6	39		Other violation(s)	
17		Container inspection - weekly	CCR 66265.174			**HAZARDOUS MATERIALS HANDLER**	
18		Tank inspection - daily	CCR 66265.195	50		Contingency plan/inventory submitted	HSC 25503.5
19		Tank operating requirements	CCR 66265.194	51		Plan and inventory updated & accurate	HSC 25505
20		EPA ID number[call 800-618-6942]	CCR 66262.12	52		Regulated substance registration	HSC 25533(a)
21		Hazardous waste transported with manifest	CCR 66262.20			**ABOVEGROUND PETROLEUM STORAGE TANK**	
22		Hazardous waste manifest complete	CCR 66262.23(a)	60		SPCC Plan Referral to RWQCB (213) 576-6600	HSC 25270.3
23		Manifest copies to DTSC	CCR 66262.23(a)(4)	70		**PERMIT REQUIRED** – Submit UP Forms	Co Ord 12.50.075

☒ **NO SIGNIFICANT VIOLATIONS OBSERVED ON DATE OF INSPECTION.**

☐ **NOTICE TO COMPLY: THE VIOLATION(S) CITED MUST BE CORRECTED BY_____.**

☐ **RETURN CERTIFICATION OF COMPLIANCE FOUND ON BACK OF THIS NOTICE.**

Attention: The items checked are in violation. A reinspection may occur at any time to verify compliance. Non-compliance could result in reinspection fees, permit revocation, and/or administrative/civil/criminal penalties. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

Facility is non-generator. No permit issued. No action taken.

Inspected By:	Authorized Representative (Print Name):	Authorized Representative (Signature):
[signature]	TIM DALEY	[signature]

FA0013184 HUDD DISTRIBUTION SERVICES INC

Version 092502

Field Notes

LIST ORDER OF INSPECTION AS FOLLOWS: I. OPENING CONFERENCE II. WALK THROUGH III. DOCUMENTS IV. CLOSING CONFERENCE V. VIOLATIONS

I OPENING CONFERENCE

CONSENT BY T/M PALEV. PURPOSE OF INSPECTION EXPLAINED.

BUSINESS IS DISTRIBUTION/WAREHOUSING BUSINESS.

II Walk through

1) Maintenance done by mobile maintenance
Jet Fleet Services,
maintains and removes waste oil from.
Forklift and yard tractors. Transported offsite.
Not stored onsite.
Non-generator

2) TRUCKS - OUTSIDE CONTRACTORS MAINTAIN OWN OFFSITE.

III DOCUMENTS + IV CLOSING CONFERENCE

1) inventory
2) Contingency Plan } → Downey FA
3) Training
4) CUPA Permit → Haz Mat only. Exempt from HW.

Inspection report provided. Verbal to provide info on Jet Fleet Services.

CONSENT GIVEN BY: INSPECTOR SIGNATURE: EMPLOYEE ID:

1st DATE & TIME OF INSPECTION: 2nd DATE & TIME OF INSPECTION:

3rd DATE & TIME OF INSPECTION:

OWNER FILE INFORMATION

Clearly make changes/corrections here.

Owner ID: OW0013184 — New Owner ID:
Owner Name: LESLIE HUDDLESTON — Tax ID :
Owner DBA:
Owner Address: 5011 FIRESTONE PL
SOUTH GATE, CA 90280
Work/Business Phone: 323-568-2500
Billing/Mailing Address: 9400 HALL RD
DOWNEY, CA 90241
ATTN/Care of: ROB ROBINSON
Ownership Type:

FACILITY FILE INFORMATION

Facility ID: FA0013184
Facility Name: HUDD DISTRIBUTION SERVICES INC
No. of Employee:
Site Location: 9400 HALL RD
DOWNEY, CA 90241
Phone: 562-674-2101
Mailing Address: 9400 HALL RD.
DOWNEY, CA 90241
Operator/Care of: ROB ROBINSON — E-Mail Address:
District: SE - SOUTHEAST
City Code: DNY
CUPA Jurisdiction: CO
Operating Hours: Days: Hours:
SIC Code: 4225 General warehousing and storage — Nature of Business: GENERAL WAREHOUSING
Business Type / Code:
Station:
Date First Became Operational:

13119

GENERAL HEALTH PROGRAM ELEMENTS

Record ID	Current Program Element	Current Status	EPA #	Effective Date Beg.	Effective Date End	------- Changes ------- Program Element	Status
PR0016275	7050 - PA, DOWNEY, HM	Active, billable					

Addition Program Element: _____

CA Waste Code					
RCRA Waste Code					
AMOUNT per quarter					
UNITS (PGTY) Pounds, Gallons, Tons, Yards					

CONSENT GIVEN BY: Tim Paley — INSPECTOR SIGNATURE: [signature] — EMPLOYEE ID: 89

1st DATE & TIME OF INSPECTION: 08/05/2003 — 2nd DATE & TIME OF INSPECTION:

3rd DATE & TIME OF INSPECTION:

By : EE0000543 - CANO, LUPITA

Version: 051002

DATE: January 30, 2003

TO: SOUTHEAST OFFICE
BONNIE CHASE

FROM: EE0000543 - CANO, LUPITA
HHMD

COMPLAINT ID: CO0002788

FA0013184 - HUDD DISTRIBUTION SERVICES INC

Requires further action?: Y

0200

OWNER INFORMATION

OW0013184 - LESLIE HUDDLESTON
DBA : None Specified
Site Address : 5011 FIRESTONE PL
SOUTH GATE, CA 90280
Mailing Address: 9400 HALL RD
DOWNEY,
Phone:

FACILITY INFORMATION

FA0013184 - HUDD DISTRIBUTION SERVICES INC
Location :
Site Address : 9400 HALL RD
DOWNEY, CA 90241
Mailing Address: 9400 HALL RD.
DOWNEY, CA 90241
Phone: 1st: 562-674-2101

COMPLAINT ID NUMBER: CO0002788

Service Code: _____
Action Code: _____
Result Code: _____

COMPLAINT MODE : DATA OPERATIONS REFERRAL

District : SE

SOURCE OF REQUEST:

Complainant: Complainant Not Specified
Address: Address Not Specified

Home/Cell Phone : Phone Not Specified
Work Phone : Phone Not Specified
Email Address :

DESCRIPTION: *(Please clearly describe the changes / corrections.)*

STATUS : 12 - CHANGE IN OWNER

PACKET RECEIVED BY DATA OPS. DECEMBER 20, 2002 INDICATES "CHANGE IN OWNER NAME". INFORMATION WILL BE FORWARDED TO THE DISTRICT NEXT DISTRICT RUN.

		Date / Time	
Received by :	EE0000543 - CANO, LUPITA	1/21/03	14:04:11
Assigned to :	~~EE0000016 - CHASE, BONNIE~~ Tim Provost	No Date	

List dates, times, types of notices, names address and phone numbers of people involved. Describe conditions and actions taken.

Date : _____
Time In : _____
Time Out : _____
Hrs/Min : _____

08/05/2003 Inspection revealed the site is non-generator. Inventory package Forwarded to Downey Fire Dept. T Provost

RECEIVED
FEB 11 2003
PARAMOUNT

** PLEASE INDICATE THE EFFECTIVE DATE NOT THE SITE VISIT DATE**

A County Fire Department
SERVICE REQUEST

Report # : 5602
Version: 031103

By : EE0000543 - CANO, LUPITA

DATE: August 13, 2003
TO: SOUTHEAST OFFICE
BONNIE CHASE
FROM: EE0000543 - CANO, LUPITA
HHMD

COMPLAINT ID: CO0002788

FA0013184 - HUDD DISTRIBUTION SERVICES INC

Requires further action?: N

ENTERED
Aug
JUL 13 2003

OWNER INFORMATION

OW0013184 - LESLIE HUDDLESTON
DBA : HUDD DISTRIBUTION SERVICES INC
Site Address : 5011 FIRESTONE PL
SOUTH GATE, CA 90280
Mailing Address: 9400 HALL RD
DOWNEY,
Phone:

FACILITY INFORMATION

FA0013184 - HUDD DISTRIBUTION SERVICES INC
Location
Site Address 9400 HALL RD
DOWNEY, CA 90241
Mailing Address: 9400 HALL RD.
DOWNEY, CA 90241 USA
Phone: 1st: 562-674-2101

COMPLAINT ID NUMBER: CO0002788

Service Code: _____
Action Code: _____
Result Code: _____

COMPLAINT MODE : DATA OPERATIONS REFERRAL

District : SE

SOURCE OF REQUEST:

Complainant: Complainant Not Specified
Address: Address Not Specified

Home/Cell Phone : Phone Not Specified
Work Phone : Phone Not Specified
Email Address :

DESCRIPTION: *(Please clearly describe the changes / corrections.)*

STATUS : 12 - CHANGE IN OWNER

PACKET RECEIVED BY DATA OPS. DECEMBER 20, 2002 INDICATES "CHANGE IN OWNER NAME". INFORMATION WILL BE FORWARDED TO THE DISTRICT NEXT DISTRICT RUN.

Tom Provost - 08/05/03 Inspection revealed the site is non - generator for business name Hudd Distribution Services Inc., package forwarded to Downey Fire Department.

		Date / Time	
Received by :	EE0000543 - CANO, LUPITA	1/21/03	14:04:11
Assigned to :	**EE0000089 - PROVOST, TOM**	2/11/03	14:10:05

List dates, times, types of notices, names address and phone numbers of people involved. Describe conditions and actions taken.

Date : _____
Time In : _____
Time Out : _____
Hrs/Min : _____

_____
_____
_____

** PLEASE INDICATE THE EFFECTIVE DATE NOT THE SITE VISIT DATE**

HUDD

Tel 562-674-2101
Fax 562-674-
Mobile 562-889-

Tim Daley
Facility Manager

HUDD DISTRIBUTION SERVICES INC.
9400 Hall Road · Downey · CA 90241-5365
tim.daley@hudd.com http://www.hudd.com

HEALTH HAZMAT

Site Name: | #

Address:

Date	HMS Init.	Findings /Remarks
03/05/2013	PP	Inspection conducted. Facility is non-generator. Inventory package forwarded to Downey FD. File

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board

Application Details

Application/Tracking Number 329472

Facility Information

Business Name	MYERS CUSTOM PRODUCTS, INC.		
Facility ID	112933	Facility Status	ACTIVE

Application Information

Application Type	Permit to Construct	Application Received	6/17/1997
Application Status	PERMIT TO OPERATE GRANTED	Application Deemed Complete	6/27/1997
Equipment Desc	FURNACE REVERB (ROTARY) ALUMINUM		
Permit Number	F8704	Permit Status	INACTIVE

Engineer Information

Engineer Assigned			
Engineer Phone		Team Assigned	JO

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

Permit No.
F77699
A/N 444857

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

ID 144831

Legal Owner
or Operator:

OMNITEAM, INC
9300 HALL RD
DOWNEY, CA 90241

Equipment Location: 9300 HALL RD, DOWNEY, CA 90241

Equipment Description :

LASER CUTTER, AMADA, MODEL 2415XL, 9'-4"W. X 18'-6"L. X 7'-2.5"H., 2KW, WITH AN INTEGRATED BAGHOUSE, TOTAL FILTER AREA 30.6 SQ. FT., PULSE JET CLEANING, AND A 7.5 H.P. BLOWER.

Conditions :

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 1300 SHEETS IN ANY ONE MONTH.

4. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3. THESE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

5. MATERIAL SAFETY DATA SHEETS FOR THE SHEET METALS SHALL BE KEPT CURRENT AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

6. THIS EQUIPMENT SHALL NOT OPERATE UNLESS THE BAGHOUSE PORTION IS OPERATIONAL.

FILE COPY

CONTINUATION OF PERMIT TO OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M.Bailey/DH04
9/6/2005

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Permit No.
F77761
A/N 444858

PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

ID 144831

Legal Owner
or Operator:

OMNITEAM, INC
9300 HALL RD
DOWNEY, CA 90241

Equipment Location: 9300 HALL RD, DOWNEY, CA 90241

Equipment Description :

LASER CUTTER, AMADA, MODEL 1212XL, 8'-4"W. X 10'-3"L. X 7'-2.5"H., 1.5KW, WITH AN INTEGRATED BAGHOUSE, TOTAL FILTER AREA 41.7 SQ. FT., PULSE JET CLEANING, AND A 3 H.P. BLOWER.

Conditions :

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THIS MACHINE SHALL NOT PROCESS MORE THAN 1300 SHEETS OF METAL IN ANY ONE MONTH.

4. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3. THESE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

5. MATERIAL SAFETY DATA SHEETS SHALL BE KEPT CURRENT AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

6. THIS EQUIPMENT SHALL NOT OPERATE UNLESS THE BAGHOUSE PORTION IS OPERATIONAL.

FILE COPY

CONTINUATION OF PERMIT TO OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M.Bailey/DH04
9/7/2005

FILE COPY

SOUTH COAST AQMD

Facility INformation Detail (FIND)

NOV/NC Details

Notice Number	D01083	Violation Date	12/15/2005	Issue Date	1/5/2006	Notice Type	NC

Facility ID	144831
Company Name	OMNITEAM, INC
Address	9300 HALL DOWNEY, CA 90241
Violation Description	DISCONTINUE USE OF L & J SUPPLY CO-BLEND LT 36 WC LACQUER THINNER FOR PARTS CLEANING AND REPLACE IT WITH A RULE 1171 COMPLIANT SOLVENT.
Equipment Description	
Status	In Compliance
Re-inspection Date	1/5/2006

Rule No.	Rule Description
1171	Solvent Cleaning Operations

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board | Transportation

NOV/NC Details

Notice Number	P45579	Violation Date	5/19/2005	Issue Date	5/20/2005	Notice Type	NOV

Facility ID	126490
Company Name	WESFAC, INC
Address	
Violation Description	OPERATION OF A LA5MAC, MODEL LC-2415 & III LASER CUTTER WIHTUT A VALID PERMIT TO OPERATE. OPERATION OF A LA5MAC, MODEL LC-1212 LASER CUTTER WITHOUT A VALID PERMIT TO OPERATE.
Equipment Description	
Follow Up Status	In Compliance
Disposition	Closed Case
Disposition Date	8/31/2005

Rule No.	Rule Description

SOUTH COAST AQMD

Facility INformation Detail (FIND)

NOV/NC Details

Notice Number	D00506	Violation Date	5/19/2005	Issue Date	12/31/9999	Notice Type	NC

Facility ID	126490
Company Name	WESFAC, INC
Address	9300 HALL DOWNEY, CA 90241
Violation Description	SUBMIT APPLICATION FOR PERMIT TO OPERATE THE THERMANYNE CUTMASTER 50 PLASMA CUTTER.
Equipment Description	
Status	In Compliance
Re-inspection Date	6/9/2005

Rule No.	Rule Description
203 (a)	Permit to Operate

SOUTH COAST AQMD

Facility INformation Detail (FIND)

NOV/NC Details

Notice Number	E12480	Violation Date	2/13/2012	Issue Date	12/31/9999	Notice Type	NC

Facility ID	171069
Company Name	WESTERN PACIFIC PULP & PAPER
Address	9400 HALL DOWNEY, CA 90241
Violation Description	Use best available control measures in table 1 to minimize fugitive dust emissions (ie - use water).
Equipment Description	Complaint 222173 and WESTERN PACIFIC PULP & PAPER
Status	In Compliance
Re-inspection Date	4/12/2012

Rule No.	Rule Description

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT to OPERATE

METRO ZONE - 434 South San Pedro Street, Los Angeles, California 90013

M 04344

SECTOR CB

Operation under this permit must be conducted in compliance with all information included with the initial application and the initial permit conditions. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 206, this Permit to Operate or copy must be posted on or within 8 meters of equipment.

LEGAL OWNER OR OPERATOR: DURAY, INC.

Appl. No. C-15749

PREVIOUS PERMIT NO. P-59464

EQUIPMENT LOCATED AT: 9301 STEWART AND GREY ROAD
DOWNEY, CALIFORNIA

EQUIPMENT DESCRIPTION AND CONDITIONS:

SPRAY BOOTH, BINKS, AUTOMOTIVE FILTER TYPE, MODEL CF-644T, 14'-0" W. X 43'-6" L. X 12'-0" H., WITH ONE 5 H.P. EXHAUST FAN.

-CONDITIONS-

1. THIS SPRAY BOOTH MUST NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AT LEAST 2 INCHES THICK.

2. A GAUGE MUST BE INSTALLED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL MUST NOT EXCEED 0.25 INCH OF WATER.

-PAGE 1 OF 2 PAGES-

FILE COPY

This initial permit must be renewed by 5-17-79 or an earlier date if equipment is moved, altered, or changes ownership. If billing for annual renewal fee (Rule 301.f) not received by expiration date, contact Zone office above.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

VALIDATION NUMBER 020, DATED 11/14/77

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER
Helen Thompson
Permit Section

BY

DATE 5-17-78

78P235M-2/77

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

CONTINUATION OF PERMIT NO. M-04344
MUST BE DISPLAYED WITH PERMIT

3. ORGANIC SOLVENTS USED IN THIS EQUIPMENT MUST BE CLEARLY LABELED AS NON-PHOTOCHEMICALLY REACTIVE BY THE SUPPLIER OR, FOR BULK SHIPMENTS, SHOWN TO BE NON-PHOTOCHEMICALLY REACTIVE ON BILLS OF LADING OR INVOICES.

4. THE TOTAL QUANTITY OF COATINGS AND SOLVENTS USED IN THIS EQUIPMENT MUST NOT EXCEED 6 GALLONS IN ANY ONE DAY OR 1 GALLON IN ANY ONE HOUR.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT to OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

M 26175

Operation under this permit must be conducted in compliance with all information included with the initial application and the initial permit conditions. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 206, this Permit to Operate or copy must be posted on or within 3 meters of equipment.

LEGAL OWNER OR OPERATOR. DURAY, INC.
9301 STEWART & GRAY RD.
DOWNEY, CALIFORNIA

APPL. NO. C-35619

EQUIPMENT LOCATED AT:

EQUIPMENT DESCRIPTION AND CONDITIONS:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:
1. BAGHOUSE, TORIT MODEL 64S/NF4219, WITH 60 SQ. FT. FILTER AREA.
2. EXHAUST SYSTEM WITH 3/4-H.P. BLOWER VENTING ONE CUTTING TORCH MACHINE.

-CONDITION-

A MECHNAICAL GAUGE MUST BE (INSTALLED)(MAINTAINED) SO AS TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.

FILE COPY

This initial permit must be renewed by 7/01/83 unless the equipment is moved, or changes ownership If billing for annual renewal fee (Rule 301 f) not received by expiration date, contact office above

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

SCAQMD 003 90000a 8062

VOID UNLESS VALIDATED

EXECUTIVE OFFICER

Mona L. Cruz

BY

DATE JUL 6 '82

76P235M REV. 2-81

SOUTH COAST AQMD

Facility INformation Detail (FIND)

NOV/NC Details

Notice Number	C68442	Violation Date	12/14/2000	Issue Date	5/30/2001	Notice Type	NC

Facility ID	4020
Company Name	DURAY INC
Address	9301 STEWART & GRAY DOWNEY, CA 90241
Violation Description	APPLY FOR PERMIT TO OPERATE FOR PLASMA ARC CUTTERS.
Equipment Description	
Status	In Compliance
Re-inspection Date	5/30/2001

Rule No.	Rule Description
203	Permit to Operate

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT to OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

M 26176

Operation under this permit must be conducted in compliance with all information included with the initial application and the initial permit conditions. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 206, this Permit to Operate or copy must be posted on or within 8 meters of equipment.

LEGAL OWNER OR OPERATOR: DURAY, INC.
9301 STEWART & GRAY RD.
EQUIPMENT LOCATED AT: DOWNEY, CALIFORNIA

APPL. NO. C-34833

EQUIPMENT DESCRIPTION AND CONDITIONS:

CUTTING TORCH, PLASMA-ARC TYPE, THERMAL ARC, MODEL NO. 647-C, 30 KW ELECTRICALLY POWERED.

-CONDITION-

THIS EQUIPMENT MUST NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

This initial permit must be renewed by 7/01/83 unless the equipment is moved, or changes ownership. If billing for annual renewal fee (Rule 301.f) not received by expiration date, contact office above

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

SCAQMD 004 17250Da 806

VOID UNLESS VALIDATED

EXECUTIVE OFFICER

Marie L. Cruz

BY

DATE Jul 6 '82

76P235M-REV. 2-81

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT to OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

M 26175

Operation under this permit must be conducted in compliance with all information included with the initial application and the initial permit conditions. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 206, this Permit to Operate or copy must be posted on or within 3 meters of equipment.

LEGAL OWNER OR OPERATOR. DURAY, INC.
9301 STEWART & GRAY RD.
DOWNEY, CALIFORNIA

APPL. NO. C-35619

EQUIPMENT LOCATED AT:

EQUIPMENT DESCRIPTION AND CONDITIONS:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:
1. BAGHOUSE, TORIT MODEL 64S/NF4219, WITH 60 SQ. FT. FILTER AREA.
2. EXHAUST SYSTEM WITH 3/4-H.P. BLOWER VENTING ONE CUTTING TORCH MACHINE.

-CONDITION-

A MECHNAICAL GAUGE MUST BE (INSTALLED)(MAINTAINED) SO AS TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.

FILE COPY

This initial permit must be renewed by 7/01/83 unless the equipment is moved, or changes ownership If billing for annual renewal fee (Rule 301 f) not received by expiration date, contact office above

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

SCAQMD 003 90000a 8062

VOID UNLESS VALIDATED

EXECUTIVE OFFICER

Mona L. Cruz

BY

DATE JUL 6 '82

76P235M REV. 2-81

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Permit No.
D86664
A/N 298308
Page 1

PERMIT TO CONSTRUCT/OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or change ownership. If the billing for permit renewal fee (Rule 301.5) is not received by the expiration date, contact the District.

Legal Owner or Operator: L.A. CELLULAR TELEPHONE COMPANY
P O BOX 6028
CERRITOS, CA 90702-6028

ID 103344

Equipment Location: 9355 STEWART/GRAY ROAD, DOWNEY, CA 90241

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, 4 CYLINDERS, TURBOCHARGED, MODEL NO. 4BT3.9-G1, 86 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3) A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.

4) OPERATION OF THIS ENGINE FOR MAINTENANCE TESTING SHALL NOT EXCEED 0.5 HOUR A WEEK.

5) THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.

6) AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

7) SULFUR CONTENT OF FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 0.05 % BY WEIGHT.

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Permit No.
D86664
A/N 298308
Page 2

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M. Bailey

By Dorris M. Bailey/cam
11/17/1994

FILE COPY

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
273236				Control	REGENERATIVE/RECUPERATIVE OXIDIZER-CERAMIC/HOT ROCK	9/23/1992	APPLICATION CANCELLED
267895	D60408	8/19/1992	INACTIVE	Basic	DEGREASER 111 TRICHLOROETHANE <=1lb/dVOC	5/18/1992	PERMIT TO OPERATE GRANTED
259464				Basic	COMPLIANCE PLAN FOR RULE 1146.1	12/12/1991	APPLICATION CANCELLED
259465				Control	AFTERBURNER, DIRECT FLAME	12/12/1991	APPLICATION CANCELLED
246363				Control	SPRAY BOOTH PAINT AND SOLVENT	3/21/1991	APPLICATION CANCELLED
243738	D37485	4/11/1991	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	1/24/1991	PERMIT TO OPERATE GRANTED
243737	D37484	4/11/1991	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	1/24/1991	PERMIT TO OPERATE GRANTED
243814				Basic	AECP AEROSPACE ASSEMBLY & COMPONENT COAT	1/24/1991	APPLICATION CANCELLED
235337	D33111	10/18/1990	INACTIVE	Basic	OVEN, BAKING	8/10/1990	PERMIT TO OPERATE GRANTED
235339	D33117	10/18/1990	INACTIVE	Basic	OVEN, BAKING	8/10/1990	PERMIT TO OPERATE GRANTED
235338	D37705	4/23/1991	INACTIVE	Basic	OVEN, BAKING	8/10/1990	PERMIT TO OPERATE GRANTED
231299	D29527	8/1/1990	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	6/19/1990	PERMIT TO OPERATE GRANTED
230725	D51527	11/2/1992	INACTIVE	Basic	SOLDERING MACHINE	6/11/1990	PERMIT TO OPERATE GRANTED
214304	D58583	7/8/1992	INACTIVE	Control	SCRUBBER, OTHER VENTING S.S.	10/2/1989	PERMIT TO OPERATE GRANTED
214303	D58584	7/8/1992	INACTIVE	Control	SCRUBBER, OTHER VENTING S.S.	10/2/1989	PERMIT TO OPERATE GRANTED
212830				Basic	COOLING TOWERS-HEX CHROME COMPLIANCE	9/19/1989	APPLICATION CANCELLED
208387	D53217	5/13/1992	INACTIVE	Basic	SURFACE PREP TANK CONT. CHROMIC ACID	7/3/1989	PERMIT TO OPERATE GRANTED
200533	D53220	5/13/1992	INACTIVE	Basic	TANK, SURFACE PREPARATION - OTHER ACIDS	6/2/1989	PERMIT TO OPERATE GRANTED
200532	D53221	5/13/1992	INACTIVE	Basic	TANK, SURFACE PREPARATION - OTHER ACIDS	6/2/1989	PERMIT TO OPERATE GRANTED
200531	D53223	5/13/1992	INACTIVE	Basic	TANK, SURFACE PREPARATION - OTHER ACIDS	6/2/1989	PERMIT TO OPERATE GRANTED
169248	D02947	10/14/1988	INACTIVE	Basic	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)	5/2/1988	PERMIT TO OPERATE GRANTED
169247	D02955	10/14/1988	INACTIVE	Basic	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)	5/2/1988	PERMIT TO OPERATE GRANTED
169248	D02947	10/14/1988	INACTIVE	Control	BAGHOUSE, AMBIENT TEMP (>100-500 SQ FT)	5/2/1988	PERMIT TO OPERATE GRANTED
169247	D02955	10/14/1988	INACTIVE	Control	BAGHOUSE, AMBIENT TEMP (>500 SQ FT)	5/2/1988	PERMIT TO OPERATE GRANTED
164656	D09313	7/27/1989	INACTIVE	Basic	DEGREASER 111 TRICHLOROETHANE <=1lb/dVOC	12/18/1987	PERMIT TO OPERATE GRANTED
164661	D09314	7/27/1989	INACTIVE	Basic	DEGREASER 111 TRICHLOROETHANE <=1lb/dVOC	12/18/1987	PERMIT TO OPERATE GRANTED
164657				Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	12/18/1987	APPLICATION CANCELLED
164658				Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	12/18/1987	APPLICATION CANCELLED
164659				Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	12/18/1987	APPLICATION CANCELLED
164662				Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	12/18/1987	APPLICATION CANCELLED
164663				Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	12/18/1987	APPLICATION CANCELLED
164655				Basic	DEGREASER FREONS (>1 lb VOC/day)	12/18/1987	APPLICATION CANCELLED
164660				Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	12/18/1987	APPLICATION CANCELLED
162642				Basic	METAL COATINGS DEMO PLAN	11/12/1987	APPLICATION CANCELLED
156574				Control	AFTERBURNER, DIRECT FLAME	8/14/1987	APPLICATION CANCELLED
157743				Basic	METAL COATINGS DEMO PLAN	6/16/1987	APPLICATION CANCELLED
157351	D61801	9/9/1992	INACTIVE	Basic	WASTEWATER TREATING	6/3/1987	PERMIT TO OPERATE GRANTED
156575	D37701	4/23/1991	INACTIVE	Basic	OVEN, DRYING	5/14/1987	PERMIT TO OPERATE GRANTED
156576	D37702	4/23/1991	INACTIVE	Basic	OVEN, DRYING	5/14/1987	PERMIT TO OPERATE GRANTED
156577	D37703	4/23/1991	INACTIVE	Basic	OVEN, DRYING	5/14/1987	PERMIT TO OPERATE GRANTED
156578	D37704	4/23/1991	INACTIVE	Basic	OVEN, DRYING	5/14/1987	PERMIT TO OPERATE GRANTED
156575	D37701	4/23/1991	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	5/14/1987	PERMIT TO OPERATE GRANTED
156576	D37702	4/23/1991	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	5/14/1987	PERMIT TO OPERATE GRANTED
156577	D37703	4/23/1991	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	5/14/1987	PERMIT TO OPERATE GRANTED
156578	D37704	4/23/1991	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	5/14/1987	PERMIT TO OPERATE GRANTED
151132	M60723	2/29/1988	INACTIVE	Basic	DEGREASER FREONS (>1 lb VOC/day)	12/11/1986	PERMIT TO OPERATE GRANTED
148726	M60703	2/29/1988	INACTIVE	Basic	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	9/29/1986	PERMIT TO OPERATE GRANTED
148210	D61774	9/9/1992	INACTIVE	Control	SCRUBBER, OTHER VENTING S.S.	9/9/1986	PERMIT TO OPERATE GRANTED
147449	M59586	12/7/1987	INACTIVE	Basic	FURNACE OTHER MET OPS MISC METALS	8/14/1986	PERMIT TO OPERATE GRANTED
147448	M59587	12/7/1987	INACTIVE	Basic	FURNACE OTHER MET OPS MISC METALS	8/14/1986	PERMIT TO OPERATE GRANTED
138596	M60721	2/29/1988	INACTIVE	Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	11/4/1985	PERMIT TO OPERATE GRANTED
138597	M60722	2/29/1988	INACTIVE	Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	11/4/1985	PERMIT TO OPERATE GRANTED
138598	M48923	3/26/1986	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	11/4/1985	PERMIT TO OPERATE GRANTED
137156	M47021	12/10/1985	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	9/19/1985	PERMIT TO OPERATE GRANTED
137155	M50441	6/18/1986	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	9/19/1985	PERMIT TO OPERATE GRANTED
130536	M46374	10/24/1985	INACTIVE	Basic	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	3/8/1985	PERMIT TO OPERATE GRANTED
129685	M46372	10/24/1985	INACTIVE	Basic	DEGREASER METHYLENE CHLORIDE <=1lb/d VOC	2/15/1985	PERMIT TO OPERATE GRANTED
129684	M46371	10/24/1985	INACTIVE	Basic	DEGREASER METHYLENE CHLORIDE <=1lb/d VOC	2/13/1985	PERMIT TO OPERATE GRANTED
129686	M46373	10/24/1985	INACTIVE	Basic	DEGREASER METHYLENE CHLORIDE <=1lb/d VOC	2/13/1985	PERMIT TO OPERATE GRANTED
128388	M50439	6/18/1986	INACTIVE	Basic	OVEN, BAKING	12/18/1984	PERMIT TO OPERATE GRANTED
128389	M50440	6/18/1986	INACTIVE	Basic	OVEN, BAKING	12/18/1984	PERMIT TO OPERATE GRANTED
128390	M42989	2/28/1985	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	12/18/1984	PERMIT TO OPERATE GRANTED
128387	M50428	6/18/1986	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	12/18/1984	PERMIT TO OPERATE GRANTED
126173	M40915	10/31/1984	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	9/27/1984	PERMIT TO OPERATE GRANTED
124685	M40504	10/8/1984	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	8/2/1984	PERMIT TO OPERATE GRANTED
124686	M40505	10/8/1984	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	8/2/1984	PERMIT TO OPERATE GRANTED
124687	M40506	10/8/1984	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	8/2/1984	PERMIT TO OPERATE GRANTED
105570	M34912	11/22/1983	INACTIVE	Basic	SPRAY EQUIPMENT OPEN	12/21/1982	PERMIT TO OPERATE GRANTED
105570	M34912	11/22/1983	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	12/21/1982	PERMIT TO OPERATE GRANTED
100666	M28260	11/18/1982	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	8/18/1982	PERMIT TO OPERATE GRANTED
100667	M28261	11/18/1982	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	8/18/1982	PERMIT TO OPERATE GRANTED
100668	M28262	11/18/1982	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	8/18/1982	PERMIT TO OPERATE GRANTED
100669	M28263	11/18/1982	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	8/18/1982	PERMIT TO OPERATE GRANTED
C42752	M34301	8/13/1984	INACTIVE	Basic	DEGREASER FREONS (>1 lb VOC/day)	5/20/1982	PERMIT TO OPERATE GRANTED
C14583	M04594	7/18/1978	INACTIVE	Basic	DEGREASER FREONS (>1 lb VOC/day)		PERMIT TO OPERATE GRANTED
C27074	M16751	7/1/1983	INACTIVE	Basic	DEGREASER FREONS (>1 lb VOC/day)		PERMIT TO OPERATE GRANTED

C27549	M16756	3/27/1981	INACTIVE	Basic	DEGREASER FREONS <= 1 lb/d VOC		PERMIT TO OPERATE GRANTED
C27075	M16752	7/1/1983	INACTIVE	Basic	DEGREASER FREONS <= 1 lb/d VOC		PERMIT TO OPERATE GRANTED
C27076	M16753	7/1/1983	INACTIVE	Basic	DEGREASER FREONS <= 1 lb/d VOC		PERMIT TO OPERATE GRANTED
C12271	M06677	1/9/1979	INACTIVE	Basic	DEGREASER PERCHLOROETHYLENE (>1lb VOC/d)		PERMIT TO OPERATE GRANTED
C13973	M04408	7/3/1978	INACTIVE	Basic	OVEN, BAKING		PERMIT TO OPERATE GRANTED
C13974	M04409	7/3/1978	INACTIVE	Basic	OVEN, BAKING		PERMIT TO OPERATE GRANTED
C27223	906948	8/1/1982	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE		PERMIT TO OPERATE GRANTED
C27223	906948	8/1/1982	INACTIVE	Control	AMINE (OR DEA) REGENERATION		PERMIT TO OPERATE GRANTED
A07409	A06969	1/20/1960	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT		PERMIT TO OPERATE GRANTED
C13971	M04607	7/18/1978	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT		PERMIT TO OPERATE GRANTED
C30561	M21328	1/18/1982	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT		PERMIT TO OPERATE GRANTED
C27566	M16757	7/1/1983	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT		PERMIT TO OPERATE GRANTED

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
334954	F11438	1/27/1998	INACTIVE	Basic	TANK, SURFACE PREPARATION - OTHER ACIDS	12/11/1997	PERMIT TO OPERATE GRANTED
292808	D85743	9/27/1994	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	5/17/1994	PERMIT TO OPERATE GRANTED
292232	D82576	5/4/1994	INACTIVE	Basic	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	4/29/1994	PERMIT TO OPERATE GRANTED
292258	D82595	5/4/1994	INACTIVE	Basic	DEGREASER 111 TRICHLOROETHANE <=1lb/dVOC	4/29/1994	PERMIT TO OPERATE GRANTED
292237	D82580	5/4/1994	INACTIVE	Basic	DEGREASER FREONS (>1 lb VOC/day)	4/29/1994	PERMIT TO OPERATE GRANTED
292235	D82579	5/4/1994	INACTIVE	Basic	DEGREASER METHYLENE CHLORIDE (>1lbVOC/d)	4/29/1994	PERMIT TO OPERATE GRANTED
292233	D82577	5/4/1994	INACTIVE	Basic	FURNACE OTHER MET OPS MISC METALS	4/29/1994	PERMIT TO OPERATE GRANTED
292234	D82578	5/4/1994	INACTIVE	Basic	FURNACE OTHER MET OPS MISC METALS	4/29/1994	PERMIT TO OPERATE GRANTED
292239	D82582	5/4/1994	INACTIVE	Basic	OVEN, BAKING	4/29/1994	PERMIT TO OPERATE GRANTED
292240	D82583	5/4/1994	INACTIVE	Basic	OVEN, BAKING	4/29/1994	PERMIT TO OPERATE GRANTED
292250	D82589	5/4/1994	INACTIVE	Basic	OVEN, BAKING	4/29/1994	PERMIT TO OPERATE GRANTED
292246	D82585	5/4/1994	INACTIVE	Basic	OVEN, DRYING	4/29/1994	PERMIT TO OPERATE GRANTED
292247	D82586	5/4/1994	INACTIVE	Basic	OVEN, DRYING	4/29/1994	PERMIT TO OPERATE GRANTED
292248	D82587	5/4/1994	INACTIVE	Basic	OVEN, DRYING	4/29/1994	PERMIT TO OPERATE GRANTED
292249	D82588	5/4/1994	INACTIVE	Basic	OVEN, DRYING	4/29/1994	PERMIT TO OPERATE GRANTED
292262	D82598	5/4/1994	INACTIVE	Basic	SOLDERING MACHINE	4/29/1994	PERMIT TO OPERATE GRANTED
292251	D82590	5/4/1994	INACTIVE	Basic	SURFACE PREP TANK CONT. CHROMIC ACID	4/29/1994	PERMIT TO OPERATE GRANTED
292253	D82591	5/4/1994	INACTIVE	Basic	TANK, SURFACE PREPARATION - OTHER ACIDS	4/29/1994	PERMIT TO OPERATE GRANTED
292255	D82592	5/4/1994	INACTIVE	Basic	TANK, SURFACE PREPARATION - OTHER ACIDS	4/29/1994	PERMIT TO OPERATE GRANTED
292254	D82615	5/4/1994	INACTIVE	Basic	TANK, SURFACE PREPARATION - OTHER ACIDS	4/29/1994	PERMIT TO OPERATE GRANTED
292260	D82597	5/4/1994	INACTIVE	Basic	WASTEWATER TREATING	4/29/1994	PERMIT TO OPERATE GRANTED
292246	D82585	5/4/1994	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	4/29/1994	PERMIT TO OPERATE GRANTED
292247	D82586	5/4/1994	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	4/29/1994	PERMIT TO OPERATE GRANTED
292248	D82587	5/4/1994	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	4/29/1994	PERMIT TO OPERATE GRANTED
292249	D82588	5/4/1994	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	4/29/1994	PERMIT TO OPERATE GRANTED
292403	D96362	2/13/1996	INACTIVE	Control	AFTERBURNER, DIRECT FLAME	4/29/1994	PERMIT TO OPERATE GRANTED
292256	D82593	5/4/1994	INACTIVE	Control	SCRUBBER, OTHER VENTING S.S.	4/29/1994	PERMIT TO OPERATE GRANTED
292257	D82594	5/4/1994	INACTIVE	Control	SCRUBBER, OTHER VENTING S.S.	4/29/1994	PERMIT TO OPERATE GRANTED
292259	D82596	5/4/1994	INACTIVE	Control	SCRUBBER, OTHER VENTING S.S.	4/29/1994	PERMIT TO OPERATE GRANTED
292238	D82581	5/4/1994	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	4/29/1994	PERMIT TO OPERATE GRANTED
292244	D82584	5/4/1994	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	4/29/1994	PERMIT TO OPERATE GRANTED

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

Permit No.
D82595
A/N 292258

This initial permit shall be renewed by 7/01 ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301 f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: **ID 101380**
U.S. ORDNANCE COMPANY, OLIN ORDNANCE DBA
ATTN: DODWELL DE SILVA
9236 E. HALL ROAD
DOWNEY, CALIFORNIA 90241

Equipment located at: SAME AS ABOVE

Equipment Description:

DEGREASER SYSTEM CONSISTING OF:

1. DEGREASER, DETREX, CONVEYORIZED VAPOR, MODEL NO. RV218-40-150, SERIAL NO. 68706-A, 4'-0" L. X 1'-5" W. X 3'-4" H., 2,800,000 BTU/HR GAS HEATED.

2. SOLVENT STILL, DETREX, MODEL NO. SF-60-HW, SERIAL NO. 68706-C, 2'-9" L., X 2'-3" W., (INSIDE DIMENSIONS), 4'-5" H., GAS HEATED, WITH A 1/2 H.P. TRANSFER PUMP.

3. SOLVENT MAKE-UP TANK, 3'-0" W. X 4'-3" L. X 2'-0" H., 190 GALLON CAPACITY.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE TOTAL QUANTITY OF SOLVENT LOSS FROM THIS EQUIPMENT (NOT INCLUDING SALVAGED SOLVENT) SHALL NOT EXCEED 10 GALLONS(S) PER DAY.

4. THE TOTAL QUANTITY OF SOLVENT LOSS FROM THIS EQUIPMENT (NOT INCLUDING SALVAGED SOLVENT) SHALL NOT EXCEED 180 GALLONS(S) PER MONTH.

5. ONLY 1,1,1-TRICHLOROETHANE MAY BE USED AS THE CLEANING SOLVENT IN THIS EQUIPMENT.

6. ORGANIC SOLVENTS USED IN THIS EQUIPMENT SHALL BE CLEARLY LABELED AS NON-PHOTOCHEMICALLY REACTIVE BY THE SUPPLIER OR, FOR BULK SHIPMENTS, SHOWN TO BE NON-PHOTOCHEMICALLY REACTIVE ON BILLS OF LADING OR INVOICES.

FILE COPY

CONTINUATION OF PERMIT TO OPERATE

7. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH DISTRICT RULES, REGULATIONS AND CONDITIONS. THESE RECORDS SHALL BE KEPT IN A FORMAT APPROVED BY THE DISTRICT. THE RECORDS SHALL BE MAINTAINED FOR AT LEAST TWO YEARS, AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/db
May 4, 1994

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

Permit No.
D82576
A/N 292232

This initial permit shall be renewed by 7/01 ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.c) is not received by the expiration date, contact the District.

Legal Owner Or Operator: ID **101380**
US ORDNANCE COMPANY, OLIN ORDNANCE DBA
ATTN: DODWELL DE SILVA
9236 EAST HALL ROAD
DOWNEY, CA 90241

Equipment located at: SAME AS ABOVE

Equipment Description:

DEGREASER, DELTA, MODEL NO. DM-430, VAPOR SPRAY TYPE, 5'-0" L. X 2'-0" W. X 4'-0" H., SERIAL NO. 5083, 12 K.W. ELECTRICALLY HEATED WITH A 1/4 H.P. SPRAY PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE TOTAL QUANTITY OF SOLVENTS USED IN THIS EQUIPMENT (NOT INCLUDING SALVAGED SOLVENT) SHALL NOT EXCEED 10 GALLONS IN ANY ONE DAY.

4. ORGANIC SOLVENTS USED IN THIS EQUIPMENT SHALL BE CLEARLY LABELED AS NON-PHOTOCHEMICALLY REACTIVE BY THE SUPPLIER OR, FOR BULK SHIPMENTS, SHOWN TO BE NON-PHOTOCHEMICALLY REACTIVE ON BILLS OF LADING OR INVOICES.

5. THE CLEANING SOLVENT USED IN THIS EQUIPMENT SHALL CONTAIN AT LEAST 96% BY WEIGHT OF 1,1,1 TRICHLOROETHANE, TRICHLOROTRIFLUOROETHANE, METHYLENE CHLORIDE OR A COMBINATION OF THESE SOLVENTS.

FILE COPY

CONTINUATION OF PERMIT TO OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey
By Dorris M. Bailey/gl
5/4/94

FILE COPY

PERMIT TO OPERATE

This initial permit shall be renewed by 7/01 ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301 f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: **ID 101380**
U.S. ORDNANCE COMPANY, OLIN ORDNANCE DBA
ATTN: DODWELL DE SILVA
9236 E. HALL ROAD
DOWNEY, CALIFORNIA 90241

Equipment located at: SAME AS ABOVE

Equipment Description:

DEGREASER SYSTEM CONSISTING OF:

1. DEGREASER, DETREX, CONVEYORIZED VAPOR, MODEL NO. RV218-40-150, SERIAL NO. 68706-A, 4'-0" L. X 1'-5" W. X 3'-4" H., 2,800,000 BTU/HR GAS HEATED.

2. SOLVENT STILL, DETREX, MODEL NO. SF-60-HW, SERIAL NO. 68706-C, 2'-9" L., X 2'-3" W., (INSIDE DIMENSIONS), 4'-5" H., GAS HEATED, WITH A 1/2 H.P. TRANSFER PUMP.

3. SOLVENT MAKE-UP TANK, 3'-0" W. X 4'-3" L. X 2'-0" H., 190 GALLON CAPACITY.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE TOTAL QUANTITY OF SOLVENT LOSS FROM THIS EQUIPMENT (NOT INCLUDING SALVAGED SOLVENT) SHALL NOT EXCEED 10 GALLONS(S) PER DAY.

4. THE TOTAL QUANTITY OF SOLVENT LOSS FROM THIS EQUIPMENT (NOT INCLUDING SALVAGED SOLVENT) SHALL NOT EXCEED 180 GALLONS(S) PER MONTH.

5. ONLY 1,1,1-TRICHLOROETHANE MAY BE USED AS THE CLEANING SOLVENT IN THIS EQUIPMENT.

6. ORGANIC SOLVENTS USED IN THIS EQUIPMENT SHALL BE CLEARLY LABELED AS NON-PHOTOCHEMICALLY REACTIVE BY THE SUPPLIER OR, FOR BULK SHIPMENTS, SHOWN TO BE NON-PHOTOCHEMICALLY REACTIVE ON BILLS OF LADING OR INVOICES.

FILE COPY

CONTINUATION OF PERMIT TO OPERATE

7. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH DISTRICT RULES, REGULATIONS AND CONDITIONS. THESE RECORDS SHALL BE KEPT IN A FORMAT APPROVED BY THE DISTRICT. THE RECORDS SHALL BE MAINTAINED FOR AT LEAST TWO YEARS, AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/db
May 4, 1994

FILE COPY

APPENDIX F

EDR DATABASE REPORT

MAERSK DOWNEY
9400 HALL RD
DOWNEY, CA 90241

Inquiry Number:
January 17, 2017

EDR Site Report™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary . . . . . Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. . . . . Page 6

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This report contains information obtained from a variety of public and other sources reasonably available to Environmental Data Resources , Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANYSUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES.ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.**Purchaser accepts this report "AS IS". Any analyses, estimates, ratings, or risk codes provided in this report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assesment performed by an environmental professional can produce information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **MAERSK DOWNEY** 9400 HALL RD DOWNEY, CA 90241 EDR ID #S113141077
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	**YES - p4**
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in other database records

DATABASE: Other Database Records (OTHER)

MAERSK DOWNEY
9400 HALL RD
DOWNEY, CA 90241
EDR ID #S113141077

HAZNET:

envid:	S113141077
Year:	2012
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 928060000
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.06255
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	1.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0375
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics

	Recovery Ect
Tons:	0.05
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.075
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2007
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2007
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.02
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2007
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

CA HAZNET: Facility and Manifest Data
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Database Release Frequency: Annually

Date of Last EDR Contact: 01/09/2017
Date of Next Scheduled Update: 04/24/2017

INTERSECTION DEVELOPMENT CORP
9300 E HALL RD
DOWNEY, CA 90241

Inquiry Number:
January 25, 2017

EDR Site Report™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary . . . . . Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. . . . . Page 10

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This report contains information obtained from a variety of public and other sources reasonably available to Environmental Data Resources , Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANYSUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES.ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.**Purchaser accepts this report "AS IS". Any analyses, estimates, ratings, or risk codes provided in this report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assesment performed by an environmental professional can produce information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **INTERSECTION DEVELOPMENT CORP** 9300 E HALL RD DOWNEY, CA 90241 EDR ID #1001217515 EPA #CAR000036079
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	**YES - p4**
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	**YES - p5**
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	**YES - p6**
Facility is listed in other database records (OTHER)	**YES - p8**
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	4

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility generates hazardous waste

DATABASE: Resource Conservation and Recovery Information (RCRAInfo)

INTERSECTION DEVELOPMENT CORP
9300 E HALL RD
DOWNEY, CA 90241
EDR ID #1001217515

RCRA NonGen / NLR:

Date form received by agency:	11/22/1999
Facility name:	INTERSECTION DEVELOPMENT CORP
Facility address:	9300 E HALL RD DOWNEY, CA 90241
EPA ID:	CAR000036079
Contact:	GREGORY ODION
Contact address:	9603 JOHN ST SANTA FE SPRINGS, CA 90670
Contact country:	US
Contact telephone:	(562) 923-9600
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:	DISPLAY TECHNOLOGIES INC
Owner/operator address:	9300 E HALL RD DOWNEY, CA 90241
Owner/operator country:	Not reported
Owner/operator telephone:	(562) 923-9600
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:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

Violation Status: No violations found

WASTE MANAGEMENT

Facility is an Hazardous Waste/Enforcement and Compliance History Site (DocketHWC/ECHO)

DATABASE: Hazardous Waste/Enforcement and Compliance History Sites (DocketHWC/ECHO)

INTERSECTION DEVELOPMENT CORP
9300 E HALL RD
DOWNEY, CA 90241
EDR ID #1001217515

ECHO:

Envid:	1001217515
Registry ID:	110002920858
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002920858

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

INTERSECTION DEVELOPMENT CORP
9300 E HALL RD
DOWNEY, CA 90241
EDR ID #1001217515

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report.
Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID:	110002920858
Facility Name:	INTERSECTION DEVELOPMENT CORP
Facility Address:	9300 E HALL RD DOWNEY, CA 90241
Facility URL:	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110002920858
FIPS:	06037
Fed Facility:	Not reported
Tribal Land:	Not reported
Tribal Name:	Not reported
Congressional District:	34
Hydrologic Unit Code:	18070106
EPA Region:	09
Site Type:	STATIONARY
Date Created:	01-MAR-2000 00:00:00
Date Updated:	29-DEC-2014 09:02:39
U.S-Mexico Border:	Not reported
Latitude:	33.9301
Longitude:	-118.12047
Horizontal Collection:	ADDRESS MATCHING-HOUSE NUMBER
Horizontal Accuracy:	30
Reference Point:	CENTER OF A FACILITY OR STATION
Horizontal Datum:	NAD83
Coordinates Source:	Not reported

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Program System ID:	CAR000036079
Program Sys. Name:	RCRAINFO
Env. Interest Type:	UNSPECIFIED UNIVERSE
Env. Interest Start Dt.:	22-NOV-1999 00:00:00
Start Date Qualifier:	FIRST NOTIFICATION DATE
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	RCRAINFO
Active Code:	Not reported

Alternative Name:	INTERSECTION DEVELOPMENT CORP

Contact Name:	GREGORY ODION
Contact Type:	REGULATORY CONTACT
Contact Title:	Not reported
Contact Telephone:	(562) 923-9600
Contact Fax:	Not reported
Contact email:	Not reported
Contact Address:	9603 JOHN ST SANTA FE SPRINGS, CA 90670

NAICS Code:	33429(OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING)

Organization Name:	DISPLAY TECHNOLOGY INC
Affiliation Type:	OWNER
Organization Type:	PRIVATE
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	4075217477
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported

Parent DUNS:	Not reported
Mailing Address:	9300 E HALL RD DOWNEY, CA 90241

MULTIMEDIA

Facility is listed in other database records

DATABASE: Other Database Records (OTHER)

INTERSECTION DEVELOPMENT CORP
9300 E HALL RD
DOWNEY, CA 90241
EDR ID #1001217515

HAZNET:

envid:	1001217515
Year:	1999
GEPAID:	CAR000036079
Contact:	INTERSECTION DEVELOPMENT COR
Telephone:	5629239600
Mailing Name:	Not reported
Mailing Address:	9300 E HALL RD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Detergent waste chemicals
Disposal Method:	Transfer Station
Tons:	.2293
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001217515
Year:	1999
GEPAID:	CAR000036079
Contact:	INTERSECTION DEVELOPMENT COR
Telephone:	5629239600
Mailing Name:	Not reported
Mailing Address:	9300 E HALL RD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	Transfer Station
Tons:	.2501
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001217515
Year:	1999
GEPAID:	CAR000036079
Contact:	INTERSECTION DEVELOPMENT COR
Telephone:	5629239600
Mailing Name:	Not reported
Mailing Address:	9300 E HALL RD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Transfer Station
Tons:	.2185
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001217515
Year:	1999
GEPAID:	CAR000036079
Contact:	INTERSECTION DEVELOPMENT COR
Telephone:	5629239600
Mailing Name:	Not reported
Mailing Address:	9300 E HALL RD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Tons:	.2000
Cat Decode:	Not reported

Method Decode: Not reported
Facility County: Los Angeles

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Tons: 2.2935
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001217515
Year: 1998
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Transfer Station
Tons: .0750
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001217515
Year: 1998
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Tons: .9174
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001217515
Year: 1998
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Transfer Station
Tons: .4378
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

FINDS: Facility Index System/Facility Registry System
Source: EPA
Telephone: Not reported
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/06/2016
Date of Next Scheduled Update: 03/20/2017

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
Source: Environmental Protection Agency
Telephone: 703-308-8895
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/12/2016
Database Release Frequency: Varies
Date of Last EDR Contact: 12/28/2016
Date of Next Scheduled Update: 04/10/2017

ECHO: Enforcement & Compliance History Information
Source: Environmental Protection Agency
Telephone: 202-564-2280
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/20/2016
Date of Next Scheduled Update: 04/03/2017

CA HAZNET: Facility and Manifest Data
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Database Release Frequency: Annually
Date of Last EDR Contact: 01/09/2017
Date of Next Scheduled Update: 04/24/2017

9300, 9350 and 9400 Hall Road
9301, 9333 and 9399 Stewart & Gray Road
Downey, CA 90241

Inquiry Number: 04816690.2r
December 29, 2016

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	252
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

9301, 9333 AND 9399 STEWART & GRAY ROAD
DOWNEY, CA 90241

COORDINATES

Latitude (North):	33.9293690 - 33° 55' 45.72''
Longitude (West):	118.1192140 - 118° 7' 9.17''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	396552.7
UTM Y (Meters):	3754694.2
Elevation:	110 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5633777 WHITTIER, CA
Version Date:	2012
West Map:	5633765 SOUTH GATE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
9301, 9333 AND 9399 STEWART & GRAY ROAD
DOWNEY, CA 90241

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	OMNI TEAM INC	9300 HALL RD	HAZNET		TP
A2	ACCESS INGREDIENTS	9333 STEWART AND GRA	HAZNET		TP
A3	MAERSK DOWNEY	9400 HALL RD	HAZNET		TP
A4	INTERSECTION DEVELOP	9300 E HALL RD	RCRA NonGen / NLR, FINDS, HAZNET, ECHO		TP
A5	OMNI TEAM INC	9300 HALL RD	HAZNET		TP
A6	WESTERN PACIFIC PULP	9350 HALL RD	FINDS		TP
A7	ANDERSON TRUCKING CO	9400 HALL RD	HAZNET		TP
A8	HEGGER REALITY CT	9400 HALL RD	HAZNET		TP
A9	WESTERN PACIFIC PULP	9400 HALL RD	ICIS, FINDS		TP
A10	HEGER REALTY CORP. D	9400 HALL ROAD	HAZNET		TP
A11	WESTERN PACIFIC PULP	9350 HALL RD	LUST, SWEEPS UST, HAZNET, HIST CORTESE		TP
A12	WESTERN PACIFIC PULP	9350 HALL RD	RGA LUST		TP
A13	WESTERN PACIFIC PULP	9350 HALL RD	SSTS		TP
A14	WESTERN PACIFIC PAPE	9350 HALL RD	LOS ANGELES CO. HMS		TP
A15	DURAY INC	9301 STEWART & GRAY	FINDS, EMI		TP
A16	DURAY/J F DUNCAN IND	9301 STEWART AND GRA	HAZNET		TP
A17	HUDD DISTRIBUTION SE	9400 HALL RD	LOS ANGELES CO. HMS		TP
A18	OMNI TEMP REFRIGERAT	9301 STEWART AND GRA	LOS ANGELES CO. HMS		TP
A19	JF DUNCAN DURAY INDU	9301 STEWART AND GRA	LOS ANGELES CO. HMS		TP
A20	WESTERN PACIFIC PAPE	9350 HALL ST.	HAZNET		TP
A21	AEROJET ORDNANCE CO	9300 HALL RD	LOS ANGELES CO. HMS		TP
A22	AEROJET ORDNANCE CO	9300 E HALL RD	SWEEPS UST		TP
A23	ROSECRANS AVE. / WOO	LINDALE AVE/CORNUTA	SWF/LF	Lower	1 ft.
24	GOULD-BROWN BOVERI	11711 WOODRUFF AVE	RCRA-SQG, FINDS, ECHO	Lower	61, 0.012, East
B25	INDUSTRIAL BUILDING	11908 12 WOODRUFF AV	RCRA-SQG, FINDS, ECHO	Lower	63, 0.012, SE
C26	HOLM INDUSTRIES	9368 STEWART AND GRA	LUST	Lower	80, 0.015, SSW
C27	COAST POLYMERS INC	9368 STEWART AND GRA	UST	Lower	80, 0.015, SSW
D28	PRIMEX TECHNOLOGIES	9236 HALL RD	SLIC, UST	Higher	140, 0.027, WNW
D29	OLIN ORDINANCE	9236 HALL RD	ENVIROSTOR, SLIC, LOS ANGELES CO. HMS	Higher	140, 0.027, WNW
D30	GENERAL DYNAMICS OTS	9236 E HALL RD	SWEEPS UST, HIST UST, CA FID UST, EMI, LA Co. Site...	Higher	140, 0.027, WNW
D31	GENERAL DYNAMICS OTS	9236 E HALL RD	RCRA-SQG, FINDS, WDS	Higher	140, 0.027, WNW
B32	NORTHERN TRUST BANK	11911 WOODRUFF AVE	RCRA-SQG, FINDS	Lower	146, 0.028, SE
E33		11860 WOODRUFF AVE	EDR Hist Auto	Lower	200, 0.038, ESE
34	FINE MACHINE INC	11255 WOODRUFF AVE	RCRA-SQG, FINDS, HAZNET, ECHO	Higher	204, 0.039, NE
E35		11840 WOODRUFF AVE	EDR Hist Auto	Lower	230, 0.044, ESE
E36	REED GRAIN & MILLING	11814 WOODRUFF AVE	DRYCLEANERS, HAZNET	Lower	230, 0.044, ESE
37	GOLDEN W PIPE & SUPP	11700 WOODRUFF AVE	SWEEPS UST	Lower	363, 0.069, East
F38	WATER YARD	9252 STEWART AND GRA	HIST UST	Lower	388, 0.073, SW
F39	CITY OF DOWNEY	9252 STEWART RD	SWEEPS UST, CA FID UST	Lower	388, 0.073, SW

MAPPED SITES SUMMARY

Target Property Address:
9301, 9333 AND 9399 STEWART & GRAY ROAD
DOWNEY, CA 90241

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
G40	METALSOURCE	11939 WOODRUFF AVE	SWEEPS UST, LOS ANGELES CO. HMS	Lower	391, 0.074, SE
G41		11939 WOODRUFF AVE	EDR Hist Auto	Lower	391, 0.074, SE
G42	INCO EXPRESS INC	11941 WOODRUFF AVE	UST, SWEEPS UST	Lower	403, 0.076, SE
G43	INCO EXPRESS INC	11941 SOUTH WOODRUFF	LUST, HIST UST	Lower	403, 0.076, SE
44	FIRESTONE CHRYSLER P	9262 E FIRESTONE BLV	RCRA-SQG, SWEEPS UST, HIST UST, FINDS, LOS ANGELES...	Higher	421, 0.080, NNE
H45	MCGEAN CHEM CO INC	9520 E CEE BEE DR	RCRA-SQG, FINDS, ECHO	Lower	549, 0.104, ESE
H46	MCGEAN-ROHCO INC	9520 E CEE BEE DRIVE	RCRA-SQG, SWEEPS UST, LOS ANGELES CO. HMS	Lower	549, 0.104, ESE
H47	MCGEAN-ROHCO, INC.	9520 CEEBEE DR E	LUST, HIST CORTESE	Lower	549, 0.104, ESE
48		9128 MARGARET ST	EDR Hist Cleaner	Higher	581, 0.110, NW
49	CITY CLEANERS & TAIL	9400 FIRESTONE BLVD	EDR Hist Cleaner	Higher	624, 0.118, NE
I50		9240 FIRESTONE BLVD	EDR Hist Auto	Higher	628, 0.119, North
J51	LLOYD'S CLEANERS	9312 E FIRESTONE BLV	EDR Hist Cleaner	Higher	635, 0.120, NNE
J52	PLAZA CLEANERS	9304 1/4 E FIRESTONE	RCRA-SQG, FINDS, ECHO	Higher	636, 0.120, NNE
J53	KENNY'S SERVICE	9328 FIRESTONE BLVD	EDR Hist Auto	Higher	637, 0.121, NNE
J54	DICK & AL'S SERVICE	9328 E FIRESTONE BLV	EDR Hist Auto	Higher	637, 0.121, NNE
I55	SAN FERNANDO CREAMER	9220 E FIRESTONE BLV	SWEEPS UST	Higher	676, 0.128, NNW
K56	CUMMINS PACIFIC, LLC	9520 STEWART AND GRA	AST	Lower	686, 0.130, ESE
K57	SR MAINTENANCE & MAN	9525 STEWART AND GRA	DRYCLEANERS, HAZNET	Lower	731, 0.138, ESE
L58	RAHNS FURNITURE REFI	9102 FIRESTONE	RCRA-SQG, FINDS, ECHO	Higher	779, 0.148, NNW
I59	GOODYEAR TIRE STORE	9245 E FIRESTONE BLV	RCRA-SQG, FINDS, ECHO	Higher	789, 0.149, North
M60	APTOS ESPLANADE PUMP	12007 WOODRUFF	HIST CORTESE	Lower	802, 0.152, SSE
J61	SHELL SERVICE STATIO	9305 E FIRESTONE	RCRA-SQG, HIST UST, FINDS, HAZNET, LOS ANGELES CO...	Higher	854, 0.162, NNE
J62	SHELL SERVICE STATIO	9305 FIRESTONE BLVD.	LUST	Higher	854, 0.162, NNE
J63	SHELL OIL #204-2250-	9305 FIRESTONE BLVD	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS	Higher	854, 0.162, NNE
J64	U R SHELL	9305 FIRESTONE BLVD	UST	Higher	854, 0.162, NNE
J65	SHELL	9305 FIRESTONE BLVD	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Higher	854, 0.162, NNE
L66		9136 E FIRESTONE BLV	AST	Higher	860, 0.163, NNW
L67	PENSKE TOYOTA	9136 E FIRESTONE BLV	AST, HAZNET	Higher	860, 0.163, NNW
L68	PENSKE TOYOTA	9136 E. FIRESTONE BL	RCRA-SQG, SWEEPS UST, HIST UST, CA FID UST, FINDS,...	Higher	860, 0.163, NNW
M69	CALPIPE INDUSTRIES I	12021 WOODRUFF AVE	HIST UST, HAZNET	Lower	885, 0.168, SSE
M70	KIRKHILL INC	12021 WOODRUFF AVE	RCRA-SQG, LUST, FINDS, HIST CORTESE, ECHO	Lower	885, 0.168, SSE
N71	DARNELL CORP	12000 WOODRUFF AVE	SWEEPS UST, RCRA NonGen / NLR, FINDS, LOS ANGELES...	Lower	930, 0.176, SE
N72	FUJI PHOTO FILM U S	12010 WOODRUFF AVE S	RCRA NonGen / NLR, FINDS, HAZNET, ECHO	Lower	930, 0.176, SE
73	REGENT MFG CO., INC.	11905 REGENTVIEW	HIST UST, EMI, WDS	Lower	969, 0.184, ESE
O74	CAR WASH USA	9514 FIRESTONE BLVD	SWEEPS UST	Higher	1107, 0.210, East
P75	CLASSIC GRAPHIX	9459 WASHBURN RD	RCRA-SQG, FINDS, HAZNET, LOS ANGELES CO. HMS, ECHO	Lower	1130, 0.214, South
O76	LOPEZ TRANSMISSION	9524 E FIRESTONE BLV	RCRA-SQG, FINDS, ECHO	Higher	1135, 0.215, East
P77	RITE ENGINEERING AND	9441 WASHBURN RD	RCRA NonGen / NLR, FINDS, EMI, HAZNET, ECHO	Lower	1193, 0.226, South
Q78	DOWNEY	9407 WASHBURN RD	SWEEPS UST, HIST UST	Lower	1193, 0.226, SSW

MAPPED SITES SUMMARY

Target Property Address:
9301, 9333 AND 9399 STEWART & GRAY ROAD
DOWNEY, CA 90241

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Q79	SOUTHERN CALIFORNIA	9407 WASHBURN RD	UST	Lower	1193, 0.226, SSW
Q80	SO CALIF GAS CO/DOWN	9407 WASHBURN RD	RCRA-SQG, FINDS, ECHO	Lower	1193, 0.226, SSW
O81		9534 FIRESTONE BLVD	AST	Higher	1206, 0.228, East
O82	CAR WASH USA- MINI M	9534 FIRESTONE BLVD	UST	Higher	1206, 0.228, East
O83	DOWNEY CAR CARE CENT	9536 FIRESTONE BLVD	AST	Higher	1230, 0.233, East
O84	60 MINUTE TUNE DOWNE	9536B FIRESTONE BLVD	RCRA-SQG	Higher	1230, 0.233, East
O85	60 MINUTE TUNE DOWNE	9536B FIRESTONE BLVD	RCRA-SQG, FINDS, ECHO	Higher	1230, 0.233, East
O86	RAY ENGINEERING	9536 FIRESTONE BL	SWEEPS UST, HIST UST	Higher	1230, 0.233, East
P87	STUD WELDING PRODUCT	9455 WASHBURN ROAD	RCRA-SQG, FINDS, HAZNET, LOS ANGELES CO. HMS, ECHO	Lower	1230, 0.233, South
R88	WALGREENS #10112	9018 FIRESTONE BLVD	RCRA-CESQG	Higher	1308, 0.248, NNW
R89	WALGREEN NO 10112	9018 FIRESTONE BLVD	RCRA-LQG, FINDS	Higher	1308, 0.248, NNW
90	GENERAL PAVING CO/JO	9316 WASHBURN RD	LUST, HIST CORTESE	Lower	1429, 0.271, SSW
91	VIMAR INC	9650 WASHBURN RD	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Lower	1524, 0.289, SE
S92	CRESCENT TRUCK LINES	11937 REGENTVIEW AVE	LUST, LOS ANGELES CO. HMS	Lower	1526, 0.289, ESE
93	MOHAWK SERVICE STTIO	11534 LAKEWOOD	LUST, HIST UST, HIST CORTESE	Higher	1538, 0.291, WNW
S94	LEXINGTON CHEMICALS	11916 REGENTVIEW	LUST, HIST CORTESE	Lower	1602, 0.303, ESE
S95	LEXINGTON CHEMICALS	11916 REGENTVIEW AVE	LUST	Lower	1602, 0.303, ESE
96	DOWNEY DUMP	11014 PANGHORN	WMUDS/SWAT	Higher	1632, 0.309, ENE
97	US RENTALS INC	9606 FIRESTONE BLVD	LUST, SWEEPS UST, HIST CORTESE, LOS ANGELES CO....	Higher	1636, 0.310, East
98	DOWNEY AREA RECYCLIN	9770 WASHBURN ROAD	SWF/LF, WMUDS/SWAT, CHMIRS, NPDES	Lower	1846, 0.350, SE
99	A C PETERSON COMPANY	12207 WOODRUFF AVE S	LUST, HIST CORTESE	Lower	1847, 0.350, SSE
T100	SHELL STATION	8767 FIRESTONE	SWEEPS UST, HIST UST, HIST CORTESE	Higher	1926, 0.365, NNW
T101	SHELL	8767 FIRESTONE BLVD	LUST	Higher	1926, 0.365, NNW
U102	SITE 24, TANK #2	9821 DOWNEYNORWALK	HIST CORTESE	Lower	1935, 0.366, SE
U103	CALSAN INC	9821 DOWNEY NORWALK	RCRA-SQG, LUST, UST, SWEEPS UST, HIST UST, FINDS,...	Lower	1935, 0.366, SE
104	DOWNEY DUMP	9612 ARDINE STREET	SWF/LF	Higher	2101, 0.398, ENE
105	ASTRO PAK FACILITY	12201 PANGBORN	SLIC	Lower	2255, 0.427, SSE
106	SEQUEL CONTRACTORS I	12240 S WOODRUFF AVE	LUST, LOS ANGELES CO. HMS	Lower	2351, 0.445, SSE
107	RED PHOSPHOROUS SITE	11810 LAKEWOOD BLVD.	SEMS, PRP	Lower	2359, 0.447, West
V108	COCA-COLA ENTERPRISE	8729 CLETA ST	LUST, CHMIRS, HIST CORTESE	Lower	2366, 0.448, WNW
V109	MARY MANDELLA	8708 CLETA ST	SWEEPS UST, CA FID UST, HIST CORTESE	Lower	2442, 0.463, WNW
V110	ASTRO PAK FACILITY F	8708 CLETA ST	LUST	Lower	2442, 0.463, WNW
V111	ASTRO PAK CORP.	8700 CLETA STREET	SLIC, ENF	Lower	2515, 0.476, WNW
112	ALPASE, INC.	9750 SEAACA	SLIC, WDS	Lower	2617, 0.496, SE
113	THRIFTY #291	10808 LAKEWOOD BLVD	LUST, HAZNET, HIST CORTESE, LOS ANGELES CO. HMS	Higher	2618, 0.496, NNW
W114	VULTEE TRAINING FIEL		ENVIROSTOR	Lower	2640, 0.500, WSW
W115	AIR FORCE PLANT #16		ENVIROSTOR	Lower	2640, 0.500, WSW
W116	AIR FORCE PLANT #16		FUDS	Lower	2658, 0.503, WSW
117	MANUFACTURERS WIRE C	12320 WOODRUFF AVE	RCRA-SQG, ENVIROSTOR, FINDS, HAZNET, WDS, ECHO	Lower	2840, 0.538, SSE

MAPPED SITES SUMMARY

Target Property Address:
9301, 9333 AND 9399 STEWART & GRAY ROAD
DOWNEY, CA 90241

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
118	DOWNEY FAMILY HOUSIN		ENVIROSTOR	Lower	2860, 0.542, West
119	ARROW TRANSPORTATION	12328 WOODRUFF AVENU	ENVIROSTOR, CHMIRS, HIST CORTESE	Lower	2931, 0.555, SSE
120	PIH HEALTH HOSPITAL	11500 BROOKSHIRE AVE	ENVIROSTOR, CHMIRS, LOS ANGELES CO. HMS	Higher	3245, 0.615, WNW
121	PEACOCK ENGINEERING	10620 EAST FIRESTONE	ENVIROSTOR, SLIC	Higher	3348, 0.634, ESE
122	QM BULK STORAGE FAC		ENVIROSTOR	Lower	3374, 0.639, SSE
123	DOWNEY USD	11040 BROOKSHIRE AVE	RCRA-SQG, ENVIROSTOR, SCH, SWEEPS UST, FINDS,...	Higher	3509, 0.665, NNW
124	VULTEE AIRCRAFT CO		ENVIROSTOR	Lower	3513, 0.665, SW
125	STORM DRAIN	BELLFLOWER&IMPERIAL	Notify 65	Lower	4110, 0.778, SSW
126	NASA INDUSTRIAL PLAN	12214 LAKEWOOD BLVD.	ENVIROSTOR, SLIC, VCP, HIST CORTESE	Lower	4321, 0.818, WSW
127	EAST MIDDLE SCHOOL	10301 WOODRUFF AVENU	ENVIROSTOR, SCH	Higher	4373, 0.828, NNE
128	COSTCO WHOLESALE NO	12324 HOXIE AVE	RCRA-LQG, ENVIROSTOR, US AIRS, HAZNET, NPDES	Lower	5033, 0.953, SE
129	SUSSMAN MIDDLE SCHOO	12500 BIRCHDALE AVEN	ENVIROSTOR, SCH	Lower	5077, 0.962, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
OMNI TEAM INC 9300 HALL RD DOWNEY, CA 90241	HAZNET GEPAID: CAC002571513	N/A
ACCESS INGREDIENTS 9333 STEWART AND GRA DOWNEY, CA 90241	HAZNET GEPAID: CAC002811278	N/A
MAERSK DOWNEY 9400 HALL RD DOWNEY, CA 90241	HAZNET GEPAID: CAL000303205	N/A
INTERSECTION DEVELOP 9300 E HALL RD DOWNEY, CA 90241	RCRA NonGen / NLR EPA ID:: CAR000036079 FINDS Registry ID:: 110002920858 HAZNET GEPAID: CAR000036079 ECHO	CAR000036079
OMNI TEAM INC 9300 HALL RD DOWNEY, CA 90241	HAZNET GEPAID: CAC002619449	N/A
WESTERN PACIFIC PULP 9350 HALL RD DOWNEY, CA 90241	FINDS Registry ID:: 110038284647	N/A
ANDERSON TRUCKING CO 9400 HALL RD DOWNEY, CA 90041	HAZNET GEPAID: CAC001054784	N/A
HEGGER REALITY CT 9400 HALL RD DOWNEY, CA 90041	HAZNET GEPAID: CAC001213976	N/A
WESTERN PACIFIC PULP 9400 HALL RD DOWNEY, CA 90241	ICIS	N/A

EXECUTIVE SUMMARY

	FRS ID:: 110064501123 FINDS Registry ID:: 110064501123	
HEGER REALTY CORP. D 9400 HALL ROAD DOWNEY, CA 90241	HAZNET GEPAID: CAC000931088	N/A
WESTERN PACIFIC PULP 9350 HALL RD DOWNEY, CA 90241	LUST Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 11/01/2016 Status: Completed - Case Closed Facility Id: I-13583 Status: Case Closed Global Id: T0603704078 Global ID: T0603704078 SWEEPS UST Status: A Tank Status: A Comp Number: 13583 HAZNET GEPAID: CAD981694292 HIST CORTESE Reg Id: I-13583	N/A
WESTERN PACIFIC PULP 9350 HALL RD DOWNEY, CA	RGA LUST	N/A
WESTERN PACIFIC PULP 9350 HALL RD DOWNEY, CA 90241	SSTS Registration Number:: 085738-CA-001	N/A
WESTERN PACIFIC PAPE 9350 HALL RD DOWNEY, CA 90241	LOS ANGELES CO. HMS Facility ID: 013262-013583	N/A
DURAY INC 9301 STEWART & GRAY DOWNEY, CA 90241	FINDS Registry ID:: 110010479106 EMI Facility Id: 4020	N/A
DURAY/J F DUNCAN IND 9301 STEWART AND GRA DOWNEY, CA 90241	HAZNET GEPAID: CAL000345244	N/A
HUDD DISTRIBUTION SE 9400 HALL RD DOWNEY, CA 90241	LOS ANGELES CO. HMS	N/A

	Facility ID: 023272-032476	
OMNI TEMP REFRIGERAT 9301 STEWART AND GRA DOWNEY, CA 90242	LOS ANGELES CO. HMS Facility ID: 026149-035642	N/A
JF DUNCAN DURAY INDU 9301 STEWART AND GRA DOWNEY, CA 90242	LOS ANGELES CO. HMS Facility ID: 026148-035640	N/A
WESTERN PACIFIC PAPE 9350 HALL ST. DOWNEY, CA 90241	HAZNET GEPAID: CAC000928088	N/A
AEROJET ORDNANCE CO 9300 HALL RD DOWNEY, CA 90241	LOS ANGELES CO. HMS Facility ID: 010688-010632	N/A
AEROJET ORDNANCE CO 9300 E HALL RD DOWNEY, CA	SWEEPS UST Status: A Comp Number: 10632	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN	San Gabriel Valley Areas of Concern
US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database

HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
FUELS PROGRAM	EPA Fuels Program Registered Listing
ICE	ICE
ABANDONED MINES	Abandoned Mines

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

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 CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RED PHOSPHOROUS SITE	***11810 LAKEWOOD BLVD.***	***W 1/4 - 1/2 (0.447 mi.)***	***107***	***186***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/21/2016 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WALGREEN NO 10112	***9018 FIRESTONE BLVD***	***NNW 1/8 - 1/4 (0.248 mi.)***	***R89***	***139***

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 06/21/2016 has revealed that there are 20 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL DYNAMICS OTS	***9236 E HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D31***	***42***
FINE MACHINE INC	***11255 WOODRUFF AVE***	***NE 0 - 1/8 (0.039 mi.)***	***34***	***48***
FIRESTONE CHRYSLER P	***9262 E FIRESTONE BLV***	***NNE 0 - 1/8 (0.080 mi.)***	***44***	***57***
PLAZA CLEANERS	***9304 1/4 E FIRESTONE***	***NNE 0 - 1/8 (0.120 mi.)***	***J52***	***70***
RAHNS FURNITURE REFI	***9102 FIRESTONE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***L58***	***74***
GOODYEAR TIRE STORE	***9245 E FIRESTONE BLV***	***N 1/8 - 1/4 (0.149 mi.)***	***I59***	***76***
SHELL SERVICE STATIO	***9305 E FIRESTONE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***J61***	***77***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PENSKE TOYOTA	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***L68***	***91***
LOPEZ TRANSMISSION	***9524 E FIRESTONE BLV***	***E 1/8 - 1/4 (0.215 mi.)***	***O76***	***117***
60 MINUTE TUNE DOWNE	9536B FIRESTONE BLVD	E 1/8 - 1/4 (0.233 mi.)	O84	129
60 MINUTE TUNE DOWNE	***9536B FIRESTONE BLVD***	***E 1/8 - 1/4 (0.233 mi.)***	***O85***	***130***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOULD-BROWN BOVERI	***11711 WOODRUFF AVE***	***E 0 - 1/8 (0.012 mi.)***	***24***	***30***
INDUSTRIAL BUILDING	***11908 12 WOODRUFF AV***	***SE 0 - 1/8 (0.012 mi.)***	***B25***	***32***
NORTHERN TRUST BANK	***11911 WOODRUFF AVE***	***SE 0 - 1/8 (0.028 mi.)***	***B32***	***46***
MCGEAN CHEM CO INC	***9520 E CEE BEE DR***	***ESE 0 - 1/8 (0.104 mi.)***	***H45***	***60***
MCGEAN-ROHCO INC	***9520 E CEE BEE DRIVE***	***ESE 0 - 1/8 (0.104 mi.)***	***H46***	***62***
KIRKHILL INC	***12021 WOODRUFF AVE***	***SSE 1/8 - 1/4 (0.168 mi.)***	***M70***	***102***
CLASSIC GRAPHIX	***9459 WASHBURN RD***	***S 1/8 - 1/4 (0.214 mi.)***	***P75***	***114***
SO CALIF GAS CO/DOWN	***9407 WASHBURN RD***	***SSW 1/8 - 1/4 (0.226 mi.)***	***Q80***	***126***
STUD WELDING PRODUCT	***9455 WASHBURN ROAD***	***S 1/8 - 1/4 (0.233 mi.)***	***P87***	***133***

RCRA-CESQG: 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.

A review of the RCRA-CESQG list, as provided by EDR, and dated 06/21/2016 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WALGREENS #10112	9018 FIRESTONE BLVD	NNW 1/8 - 1/4 (0.248 mi.)	R88	137

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/01/2016 has revealed that there are 15 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OLIN ORDINANCE	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D29***	***36***
Facility Id: 71002450				

Status: Refer: Local Agency

PIH HEALTH HOSPITAL Facility Id: 71003236 Status: Refer: Other Agency	***11500 BROOKSHIRE AVE***	***WNW 1/2 - 1 (0.615 mi.)***	***120***	***214***
PEACOCK ENGINEERING Facility Id: 19350006 Status: Refer: Other Agency	***10620 EAST FIRESTONE***	***ESE 1/2 - 1 (0.634 mi.)***	***121***	***219***
DOWNEY USD Facility Id: 19820097 Status: No Further Action	***11040 BROOKSHIRE AVE***	***NNW 1/2 - 1 (0.665 mi.)***	***123***	***221***
EAST MIDDLE SCHOOL Facility Id: 19820106 Status: Inactive - Withdrawn	***10301 WOODRUFF AVENU***	***NNE 1/2 - 1 (0.828 mi.)***	***127***	***237***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VULTEE TRAINING FIEL Facility Id: 80000863 Status: Inactive - Needs Evaluation		WSW 1/4 - 1/2 (0.500 mi.)	W114	203
AIR FORCE PLANT #16 Facility Id: 80000160 Status: Inactive - Needs Evaluation		WSW 1/4 - 1/2 (0.500 mi.)	W115	204
MANUFACTURERS WIRE C Facility Id: 71003652 Status: Refer: Other Agency	***12320 WOODRUFF AVE***	***SSE 1/2 - 1 (0.538 mi.)***	***117***	***206***
DOWNEY FAMILY HOUSIN Facility Id: 80000075 Status: Inactive - Needs Evaluation		W 1/2 - 1 (0.542 mi.)	118	211
ARROW TRANSPORTATION Facility Id: 71002480 Status: Refer: Other Agency	***12328 WOODRUFF AVENU***	***SSE 1/2 - 1 (0.555 mi.)***	***119***	***212***
QM BULK STORAGE FAC Facility Id: 80000423 Status: Inactive - Needs Evaluation		SSE 1/2 - 1 (0.639 mi.)	122	220
VULTEE AIRCRAFT CO Facility Id: 80000851 Status: Inactive - Needs Evaluation		SW 1/2 - 1 (0.665 mi.)	124	231
NASA INDUSTRIAL PLAN Facility Id: 19370366 Status: No Further Action	***12214 LAKEWOOD BLVD.***	***WSW 1/2 - 1 (0.818 mi.)***	***126***	***233***
COSTCO WHOLESALE NO Facility Id: 71003261 Status: Refer: Other Agency	***12324 HOXIE AVE***	***SE 1/2 - 1 (0.953 mi.)***	***128***	***240***
SUSSMAN MIDDLE SCHOO Facility Id: 19820107 Status: No Further Action	***12500 BIRCHDALE AVEN***	***WSW 1/2 - 1 (0.962 mi.)***	***129***	***248***

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 3 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DOWNEY DUMP	9612 ARDINE STREET	ENE 1/4 - 1/2 (0.398 mi.)	104	183
Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016 Database: LOS ANGELES CO. LF, Date of Government Version: 10/17/2016 Facility ID: 19-AA-5382 Site ID: 1920 Status: Closed Operational Status: Closed Regulation Status: Pre-regulations				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROSECRANS AVE. / WOO	LINDALE AVE/CORNUTA	0 - 1/8 (0.000 mi.)	A23	29
Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016 Facility ID: 19-AA-5345 Operational Status: Closed Regulation Status: Unpermitted				
DOWNEY AREA RECYCLIN	***9770 WASHBURN ROAD***	***SE 1/4 - 1/2 (0.350 mi.)***	***98***	***159***
Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016 Database: LOS ANGELES CO. LF, Date of Government Version: 10/17/2016 Facility ID: 19-AA-0801 Site ID: 181 Status: Active Operational Status: Active Regulation Status: Permitted				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 20 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHELL SERVICE STATIO	9305 FIRESTONE BLVD.	NNE 1/8 - 1/4 (0.162 mi.)	J62	80
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: I-09468A Status: Pollution Characterization Global ID: T0603748443				
SHELL	***9305 FIRESTONE BLVD***	***NNE 1/8 - 1/4 (0.162 mi.)***	***J65***	***84***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 11/01/2016				

Status: Completed - Case Closed
Facility Id: I-09468
Status: Case Closed
Global Id: T0603703423
Global Id: T0603748443
Global ID: T0603703423

MOHAWK SERVICE STTIO ***11534 LAKEWOOD*** ***WNW 1/4 - 1/2 (0.291 mi.)*** ***93*** ***149***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: 902410043
Status: Case Closed
Global Id: T0603701264
Global ID: T0603701264

US RENTALS INC ***9606 FIRESTONE BLVD*** ***E 1/4 - 1/2 (0.310 mi.)*** ***97*** ***155***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: R-11696
Status: Case Closed
Global Id: T0603705064
Global ID: T0603705064

SHELL 8767 FIRESTONE BLVD NNW 1/4 - 1/2 (0.365 mi.) T101 170
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: I-09470
Status: Case Closed
Global Id: T0603703424
Global ID: T0603703424

THRIFTY #291 ***10808 LAKEWOOD BLVD*** ***NNW 1/4 - 1/2 (0.496 mi.)*** ***113*** ***198***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: I-10959
Status: Case Closed
Global Id: T0603703696
Global ID: T0603703696

Lower Elevation	Address	Direction / Distance	Map ID	Page

HOLM INDUSTRIES 9368 STEWART AND GRA SSW 0 - 1/8 (0.015 mi.) C26 33
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Global Id: T0603737698

INCO EXPRESS INC ***11941 SOUTH WOODRUFF*** ***SE 0 - 1/8 (0.076 mi.)*** ***G43*** ***55***
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Global Id: T0603719104

MCGEAN-ROHCO, INC. ***9520 CEEBEE DR E*** ***ESE 0 - 1/8 (0.104 mi.)*** ***H47*** ***67***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed

Facility Id: R-01310
Status: Case Closed
Global Id: T0603704555
Global ID: T0603704555

KIRKHILL INC ***12021 WOODRUFF AVE*** ***SSE 1/8 - 1/4 (0.168 mi.)*** ***M70*** ***102***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: I-12987
Status: Case Closed
Global Id: T0603704020
Global ID: T0603704020

GENERAL PAVING CO/JO ***9316 WASHBURN RD*** ***SSW 1/4 - 1/2 (0.271 mi.)*** ***90*** ***141***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: R-10910
Status: Case Closed
Global Id: T0603704974
Global ID: T0603704974

VIMAR INC ***9650 WASHBURN RD*** ***SE 1/4 - 1/2 (0.289 mi.)*** ***91*** ***144***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: I-14214
Status: Case Closed
Global Id: T0603704145
Global ID: T0603704145

CRESCENT TRUCK LINES ***11937 REGENTVIEW AVE*** ***ESE 1/4 - 1/2 (0.289 mi.)*** ***S92*** ***147***
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Global Id: T0603714767

LEXINGTON CHEMICALS ***11916 REGENTVIEW*** ***ESE 1/4 - 1/2 (0.303 mi.)*** ***S94*** ***152***
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Global Id: T0603705366

LEXINGTON CHEMICALS 11916 REGENTVIEW AVE ESE 1/4 - 1/2 (0.303 mi.) S95 153
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: R-22573
Status: Case Closed
Global ID: T0603705366

A C PETERSON COMPANY ***12207 WOODRUFF AVE S*** ***SSE 1/4 - 1/2 (0.350 mi.)*** ***99*** ***165***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: R-09291
Status: Case Closed
Global Id: T0603704798
Global ID: T0603704798

CALSAN INC ***9821 DOWNEY NORWALK*** ***SE 1/4 - 1/2 (0.366 mi.)*** ***U103*** ***173***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016

Status: Open - Site Assessment
Facility Id: R-09296
Status: Leak being confirmed
Global Id: T0603793083
Global ID: T0603793083

SEQUEL CONTRACTORS I ***12240 S WOODRUFF AVE*** ***SSE 1/4 - 1/2 (0.445 mi.)*** ***106*** ***185***
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Global Id: T0603754702

COCA-COLA ENTERPRISE ***8729 CLETA ST*** ***WNW 1/4 - 1/2 (0.448 mi.)*** ***V108*** ***188***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: I-12279
Status: Case Closed
Global Id: T0603703951
Global ID: T0603703951

ASTRO PAK FACILITY F 8708 CLETA ST WNW 1/4 - 1/2 (0.463 mi.) V110 193
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: R-16168
Status: Pollution Characterization
Global ID: T0603705274

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there are 5 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PRIMEX TECHNOLOGIES	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D28***	***35***
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required				
OLIN ORDINANCE	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D29***	***36***
Database: SLIC, Date of Government Version: 09/12/2016 Facility Status: Completed - Case Closed Global Id: SLT43200198				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ASTRO PAK FACILITY	12201 PANGBORN	SSE 1/4 - 1/2 (0.427 mi.)	105	184
Database: SLIC, Date of Government Version: 09/12/2016 Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Completed - Case Closed Facility Status: No further action required Global Id: SL599992903				
ASTRO PAK CORP.	***8700 CLETA STREET***	***WNW 1/4 - 1/2 (0.476 mi.)***	***V111***	***194***
Database: SLIC, Date of Government Version: 09/12/2016 Database: SLIC REG 4, Date of Government Version: 11/17/2004				

Facility Status: Open - Remediation
Facility Status: Remediation
Global Id: SL2044E1590

ALPASE, INC. ***9750 SEAACA*** ***SE 1/4 - 1/2 (0.496 mi.)*** ***112*** ***197***
Database: SLIC, Date of Government Version: 09/12/2016
Database: SLIC REG 4, Date of Government Version: 11/17/2004
Facility Status: Completed - Case Closed
Facility Status: No further action required
Global Id: SL184161399

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PRIMEX TECHNOLOGIES	***9236 HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D28***	***35***
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 22299				
U R SHELL	9305 FIRESTONE BLVD	NNE 1/8 - 1/4 (0.162 mi.)	J64	83
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 26258				
CAR WASH USA- MINI M	9534 FIRESTONE BLVD	E 1/8 - 1/4 (0.228 mi.)	O82	128
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 21743				

Lower Elevation	Address	Direction / Distance	Map ID	Page
COAST POLYMERS INC	9368 STEWART AND GRA	SSW 0 - 1/8 (0.015 mi.)	C27	35
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 14427				
INCO EXPRESS INC	***11941 WOODRUFF AVE***	***SE 0 - 1/8 (0.076 mi.)***	***G42***	***54***
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 12833				
SOUTHERN CALIFORNIA	9407 WASHBURN RD	SSW 1/8 - 1/4 (0.226 mi.)	Q79	126
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 12689				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 5 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	9136 E FIRESTONE BLV	NNW 1/8 - 1/4 (0.163 mi.)	L66	88
PENSKE TOYOTA	***9136 E FIRESTONE BLV***	***NNW 1/8 - 1/4 (0.163 mi.)***	***L67***	***89***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	9534 FIRESTONE BLVD	E 1/8 - 1/4 (0.228 mi.)	O81	128
DOWNEY CAR CARE CENT	9536 FIRESTONE BLVD	E 1/8 - 1/4 (0.233 mi.)	O83	128

Lower Elevation	Address	Direction / Distance	Map ID	Page
CUMMINS PACIFIC, LLC	9520 STEWART AND GRA	ESE 1/8 - 1/4 (0.130 mi.)	K56	73

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 2 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DOWNEY DUMP	11014 PANGHORN	ENE 1/4 - 1/2 (0.309 mi.)	96	154

Lower Elevation	Address	Direction / Distance	Map ID	Page
DOWNEY AREA RECYCLIN	***9770 WASHBURN ROAD***	***SE 1/4 - 1/2 (0.350 mi.)***	***98***	***159***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 14 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL DYNAMICS OTS Status: A Tank Status: A Comp Number: 11695	***9236 E HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D30***	***37***
FIRESTONE CHRYSLER P Status: A Comp Number: 13115	***9262 E FIRESTONE BLV***	***NNE 0 - 1/8 (0.080 mi.)***	***44***	***57***
SAN FERNANDO CREAMER Status: A Comp Number: 13561	9220 E FIRESTONE BLV	NNW 1/8 - 1/4 (0.128 mi.)	I55	72
SHELL OIL #204-2250-	***9305 FIRESTONE BLVD***	***NNE 1/8 - 1/4 (0.162 mi.)***	***J63***	***81***

Status: A
Tank Status: A
Comp Number: 9468

PENSKE TOYOTA	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***L68***	***91***
Status: A Tank Status: A Comp Number: 11032				
CAR WASH USA	9514 FIRESTONE BLVD	E 1/8 - 1/4 (0.210 mi.)	O74	112
Status: A Tank Status: A Comp Number: 14512				
RAY ENGINEERING	***9536 FIRESTONE BL***	***E 1/8 - 1/4 (0.233 mi.)***	***O86***	***132***
Status: A Comp Number: 14115				

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOLDEN W PIPE & SUPP	11700 WOODRUFF AVE	E 0 - 1/8 (0.069 mi.)	37	52
Status: A Comp Number: 11251				
CITY OF DOWNEY	***9252 STEWART RD***	***SW 0 - 1/8 (0.073 mi.)***	***F39***	***53***
Status: A Tank Status: A Comp Number: 11659				
METALSOURCE	***11939 WOODRUFF AVE***	***SE 0 - 1/8 (0.074 mi.)***	***G40***	***53***
Status: A Comp Number: 10350				
INCO EXPRESS INC	***11941 WOODRUFF AVE***	***SE 0 - 1/8 (0.076 mi.)***	***G42***	***54***
Status: A Tank Status: A Comp Number: 12833				
MCGEAN-ROHCO INC	***9520 E CEE BEE DRIVE***	***ESE 0 - 1/8 (0.104 mi.)***	***H46***	***62***
Status: A Tank Status: A Comp Number: 1310				
DARNELL CORP	***12000 WOODRUFF AVE***	***SE 1/8 - 1/4 (0.176 mi.)***	***N71***	***106***
Status: A Comp Number: 964				
DOWNEY	***9407 WASHBURN RD***	***SSW 1/8 - 1/4 (0.226 mi.)***	***Q78***	***125***
Status: A Tank Status: A Comp Number: 12689				

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 10 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL DYNAMICS OTS	***9236 E HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D30***	***37***
FIRESTONE CHRYSLER P	***9262 E FIRESTONE BLV***	***NNE 0 - 1/8 (0.080 mi.)***	***44***	***57***

Facility Id: 00000067704

SHELL SERVICE STATIO	***9305 E FIRESTONE***	***NNE 1/8 - 1/4 (0.162 mi.)***	***J61***	***77***
PENSKE TOYOTA	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***L68***	***91***
Facility Id: 00000034117				
RAY ENGINEERING	***9536 FIRESTONE BL***	***E 1/8 - 1/4 (0.233 mi.)***	***O86***	***132***
Facility Id: 00000052888				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WATER YARD	9252 STEWART AND GRA	SW 0 - 1/8 (0.073 mi.)	F38	52
Facility Id: 00000047215				
INCO EXPRESS INC	***11941 SOUTH WOODRUFF***	***SE 0 - 1/8 (0.076 mi.)***	***G43***	***55***
CALPIPE INDUSTRIES I	***12021 WOODRUFF AVE***	***SSE 1/8 - 1/4 (0.168 mi.)***	***M69***	***99***
REGENT MFG CO., INC.	***11905 REGENTVIEW***	***ESE 1/8 - 1/4 (0.184 mi.)***	***73***	***110***
Facility Id: 00000006431				
DOWNEY	***9407 WASHBURN RD***	***SSW 1/8 - 1/4 (0.226 mi.)***	***Q78***	***125***
Facility Id: 00000007497				

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 4 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENERAL DYNAMICS OTS	***9236 E HALL RD***	***WNW 0 - 1/8 (0.027 mi.)***	***D30***	***37***
Facility Id: 19000752				
Status: A				
SHELL OIL #204-2250-	***9305 FIRESTONE BLVD***	***NNE 1/8 - 1/4 (0.162 mi.)***	***J63***	***81***
Facility Id: 19002081				
Status: A				
PENSKE TOYOTA	***9136 E. FIRESTONE BL***	***NNW 1/8 - 1/4 (0.163 mi.)***	***L68***	***91***
Facility Id: 19028911				
Status: A				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF DOWNEY	***9252 STEWART RD***	***SW 0 - 1/8 (0.073 mi.)***	***F39***	***53***
Facility Id: 19054986				
Status: A				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/21/2016 has revealed that

there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DARNELL CORP	***12000 WOODRUFF AVE***	***SE 1/8 - 1/4 (0.176 mi.)***	***N71***	***106***
FUJI PHOTO FILM U S	***12010 WOODRUFF AVE S***	***SE 1/8 - 1/4 (0.176 mi.)***	***N72***	***108***
RITE ENGINEERING AND	***9441 WASHBURN RD***	***S 1/8 - 1/4 (0.226 mi.)***	***P77***	***119***

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AIR FORCE PLANT #16		WSW 1/2 - 1 (0.503 mi.)	W116	205

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 09/02/2016 has revealed that there are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
REED GRAIN & MILLING EPA Id: CAL000371058	***11814 WOODRUFF AVE***	***ESE 0 - 1/8 (0.044 mi.)***	***E36***	***51***
SR MAINTENANCE & MAN EPA Id: CAL000367231	***9525 STEWART AND GRA***	***ESE 1/8 - 1/4 (0.138 mi.)***	***K57***	***73***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 15 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHELL Reg Id: I-09468	***9305 FIRESTONE BLVD***	***NNE 1/8 - 1/4 (0.162 mi.)***	***J65***	***84***
MOHAWK SERVICE STTIO Reg Id: 902410043	***11534 LAKEWOOD***	***WNW 1/4 - 1/2 (0.291 mi.)***	***93***	***149***
US RENTALS INC Reg Id: R-11696	***9606 FIRESTONE BLVD***	***E 1/4 - 1/2 (0.310 mi.)***	***97***	***155***
SHELL STATION Reg Id: I-09470	***8767 FIRESTONE***	***NNW 1/4 - 1/2 (0.365 mi.)***	***T100***	***167***
THRIFTY #291 Reg Id: I-10959	***10808 LAKEWOOD BLVD***	***NNW 1/4 - 1/2 (0.496 mi.)***	***113***	***198***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MCGEAN-ROHCO, INC.	***9520 CEEBEE DR E***	***ESE 0 - 1/8 (0.104 mi.)***	***H47***	***67***

Reg Id: R-01310				
APTOS ESPLANADE PUMP Reg Id: 3045	12007 WOODRUFF	SSE 1/8 - 1/4 (0.152 mi.)	M60	77
KIRKHILL INC Reg Id: I-12987	***12021 WOODRUFF AVE***	***SSE 1/8 - 1/4 (0.168 mi.)***	***M70***	***102***
GENERAL PAVING CO/JO Reg Id: R-10910	***9316 WASHBURN RD***	***SSW 1/4 - 1/2 (0.271 mi.)***	***90***	***141***
VIMAR INC Reg Id: I-14214	***9650 WASHBURN RD***	***SE 1/4 - 1/2 (0.289 mi.)***	***91***	***144***
LEXINGTON CHEMICALS Reg Id: R-22573	***11916 REGENTVIEW***	***ESE 1/4 - 1/2 (0.303 mi.)***	***S94***	***152***
A C PETERSON COMPANY Reg Id: R-09291	***12207 WOODRUFF AVE S***	***SSE 1/4 - 1/2 (0.350 mi.)***	***99***	***165***
SITE 24, TANK #2 Reg Id: 2766	9821 DOWNEYNORWALK	SE 1/4 - 1/2 (0.366 mi.)	U102	172
COCA-COLA ENTERPRISE Reg Id: I-12279	***8729 CLETA ST***	***WNW 1/4 - 1/2 (0.448 mi.)***	***V108***	***188***
MARY MANDELLA Reg Id: R-16168	***8708 CLETA ST***	***WNW 1/4 - 1/2 (0.463 mi.)***	***V109***	***192***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 09/19/2016 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STORM DRAIN	BELLFLOWER&IMPERIAL	SSW 1/2 - 1 (0.778 mi.)	125	232

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 6 EDR Hist Auto sites within approximately 0.125 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	9240 FIRESTONE BLVD	N 0 - 1/8 (0.119 mi.)	I50	70
KENNY'S SERVICE	9328 FIRESTONE BLVD	NNE 0 - 1/8 (0.121 mi.)	J53	72
Database: EDR Hist Auto, Date of Government Version: 02/20/2007				
DICK & AL'S SERVICE	9328 E FIRESTONE BLV	NNE 0 - 1/8 (0.121 mi.)	J54	72
Database: EDR Hist Auto, Date of Government Version: 02/20/2007				

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	11860 WOODRUFF AVE	ESE 0 - 1/8 (0.038 mi.)	E33	48
Not reported	11840 WOODRUFF AVE	ESE 0 - 1/8 (0.044 mi.)	E35	50
Not reported	11939 WOODRUFF AVE	SE 0 - 1/8 (0.074 mi.)	G41	54

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 3 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

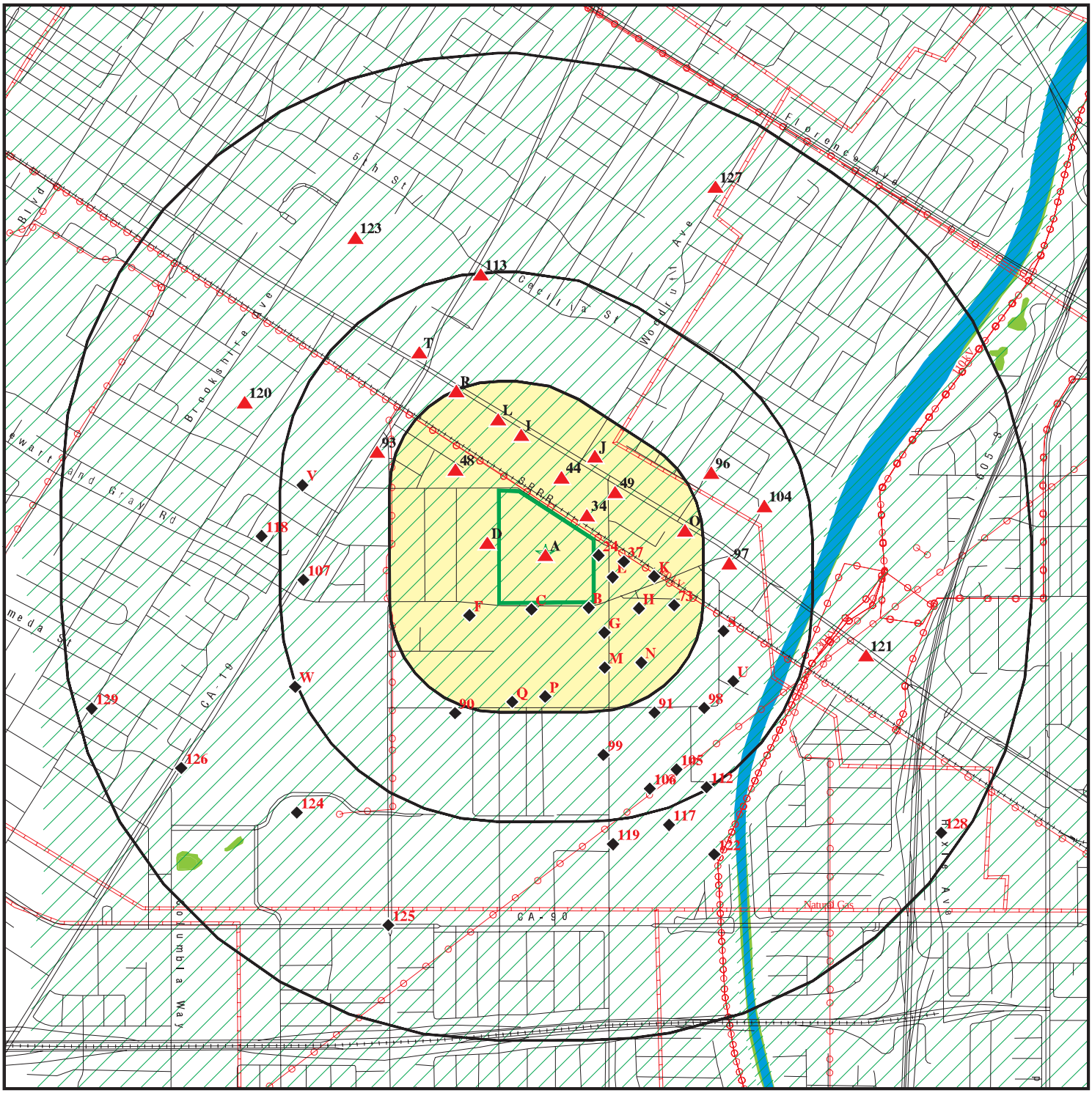
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	9128 MARGARET ST	NW 0 - 1/8 (0.110 mi.)	48	69
CITY CLEANERS & TAIL	9400 FIRESTONE BLVD	NE 0 - 1/8 (0.118 mi.)	49	70
Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007				
LLOYD'S CLEANERS	9312 E FIRESTONE BLV	NNE 0 - 1/8 (0.120 mi.)	J51	70
Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
STONEWOOD CENTER	SLIC

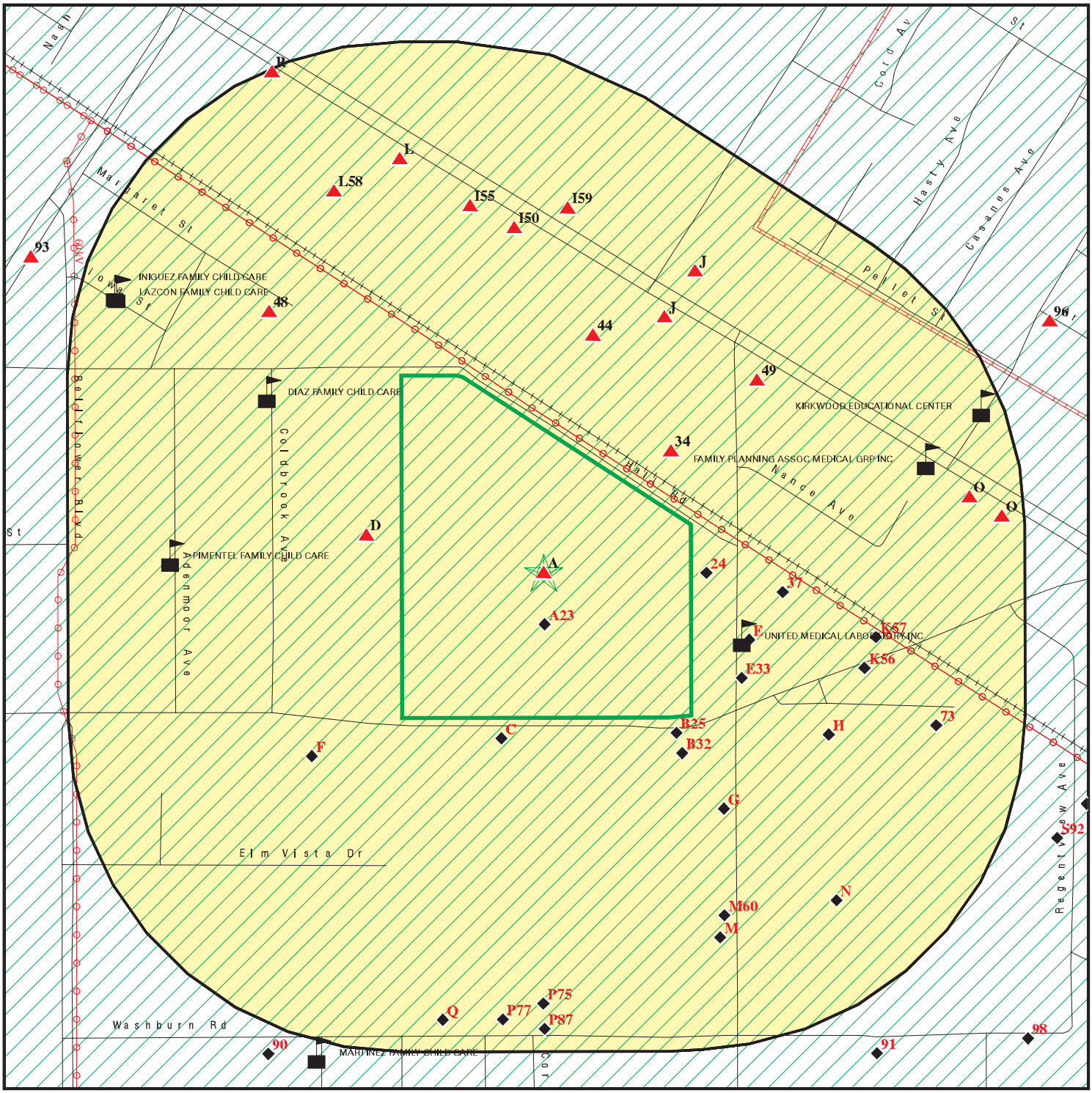
OVERVIEW MAP - 04816690.2R



SITE NAME: 9300, 9350 and 9400 Hall Road ADDRESS: 9301, 9333 and 9399 Stewart & Gray Road Downey CA 90241 LAT/LONG: 33.929369 / 118.119214	CLIENT: SCS Engineers CONTACT: Kim Braun INQUIRY #: 04816690.2r DATE: December 29, 2016 2:11 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 04816690.2R



- 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
- Power transmission lines
- 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: 9300, 9350 and 9400 Hall Road	CLIENT: SCS Engineers
ADDRESS: 9301, 9333 and 9399 Stewart & Gray Road Downey CA 90241	CONTACT: Kim Braun
LAT/LONG: 33.929369 / 118.119214	INQUIRY #: 04816690.2r DATE: December 29, 2016 2:13 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		9	11	NR	NR	NR	20
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		1	0	2	12	NR	15
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		1	0	2	NR	NR	3
State and tribal leaking storage tank lists								
LUST	0.500	1	3	3	14	NR	NR	21

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		2	0	3	NR	NR	5
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		3	3	NR	NR	NR	6
AST	0.250		0	5	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	2	NR	NR	2
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	2	7	7	NR	NR	NR	16
HIST UST	0.250		4	6	NR	NR	NR	10
CA FID UST	0.250		2	2	NR	NR	NR	4
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	3	NR	NR	NR	4
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001	1	0	NR	NR	NR	NR	1
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	0	NR	NR	NR	NR	1
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	4	0	NR	NR	NR	NR	4
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		1	1	NR	NR	NR	2
EMI	0.001	1	0	NR	NR	NR	NR	1
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	11	0	NR	NR	NR	NR	11

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST CORTESE	0.500	1	1	3	11	NR	NR	16
LOS ANGELES CO. HMS	0.001	5	0	NR	NR	NR	NR	5
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		6	NR	NR	NR	NR	6
EDR Hist Cleaner	0.125		3	NR	NR	NR	NR	3
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	1	0	NR	NR	NR	NR	1
- Totals --		30	43	46	35	14	0	168

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **OMNI TEAM INC** **HAZNET** **S112933674**
Target **9300 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 1 of 23 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S112933674
Year:	2003
GEPAID:	CAC002571513
Contact:	LOUIE DIAZ
Telephone:	8004239660
Mailing Name:	Not reported
Mailing Address:	9300 HALL RD
Mailing City,St,Zip:	DOWNEY, CA 90241
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Alkaline solution without metals pH >= 12.5
Disposal Method:	Disposal, Land Fill
Tons:	0.22
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S112933674
Year:	2003
GEPAID:	CAC002571513
Contact:	LOUIE DIAZ
Telephone:	8004239660
Mailing Name:	Not reported
Mailing Address:	9300 HALL RD
Mailing City,St,Zip:	DOWNEY, CA 90241
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	0.45
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

A2 **ACCESS INGREDIENTS** **HAZNET** **S118916494**
Target **9333 STEWART AND GRAY RD** **N/A**
Property **DOWNEY, CA 90241**

Site 2 of 23 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S118916494
Year:	2015
GEPAID:	CAC002811278
Contact:	JOEY TRAN
Telephone:	5628618300
Mailing Name:	Not reported
Mailing Address:	9333 STEWART AND GRAY RD
Mailing City,St,Zip:	DOWNEY, CA 90241
Gen County:	Los Angeles
TSD EPA ID:	UTD991301748

ACCESS INGREDIENTS (Continued) **S118916494**

TSD County:	99
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.495
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

A3 Target Property **MAERSK DOWNEY** **HAZNET** **S113141077**
9400 HALL RD **N/A**
DOWNEY, CA 90241

Site 3 of 23 in cluster A

Actual: 110 ft.

HAZNET:

envid:	S113141077
Year:	2012
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 928060000
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.06255
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	1.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR

MAERSK DOWNEY (Continued) **S113141077**

Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0375
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.05
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113141077
Year:	2009
GEPAID:	CAL000303205
Contact:	ROB CLAY/FACILITY MGR
Telephone:	5626742101
Mailing Name:	Not reported
Mailing Address:	2971 E WHITE STAR AVE
Mailing City,St,Zip:	ANAHEIM, CA 92806
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.075
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

A4 Target Property | **INTERSECTION DEVELOPMENT CORP**
9300 E HALL RD
DOWNEY, CA 90241

RCRA NonGen / NLR
FINDS
HAZNET
ECHO

1001217515
CAR000036079

Site 4 of 23 in cluster A

Actual: 110 ft.

RCRA NonGen / NLR:

Date form received by agency:	11/22/1999
Facility name:	INTERSECTION DEVELOPMENT CORP
Facility address:	9300 E HALL RD DOWNEY, CA 90241
EPA ID:	CAR000036079
Contact:	GREGORY ODION
Contact address:	9603 JOHN ST SANTA FE SPRINGS, CA 90670
Contact country:	US
Contact telephone:	(562) 923-9600
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:	DISPLAY TECHNOLOGIES INC
Owner/operator address:	9300 E HALL RD DOWNEY, CA 90241
Owner/operator country:	Not reported
Owner/operator telephone:	(562) 923-9600
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:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D001
. Waste name:	IGNITABLE WASTE

. Waste code:	D003
. Waste name:	REACTIVE WASTE

Violation Status: No violations found

INTERSECTION DEVELOPMENT CORP (Continued) **1001217515**

FINDS:

Registry ID: 110002920858

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1001217515
Year:	1999
GEPAID:	CAR000036079
Contact:	INTERSECTION DEVELOPMENT COR
Telephone:	5629239600
Mailing Name:	Not reported
Mailing Address:	9300 E HALL RD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Detergent waste chemicals
Disposal Method:	Transfer Station
Tons:	.2293
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001217515
Year:	1999
GEPAID:	CAR000036079
Contact:	INTERSECTION DEVELOPMENT COR
Telephone:	5629239600
Mailing Name:	Not reported
Mailing Address:	9300 E HALL RD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	Transfer Station
Tons:	.2501
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1001217515
Year:	1999
GEPAID:	CAR000036079
Contact:	INTERSECTION DEVELOPMENT COR
Telephone:	5629239600
Mailing Name:	Not reported

INTERSECTION DEVELOPMENT CORP (Continued) **1001217515**

Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Transfer Station
Tons: .2185
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Tons: .2000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001217515
Year: 1999
GEPAID: CAR000036079
Contact: INTERSECTION DEVELOPMENT COR
Telephone: 5629239600
Mailing Name: Not reported
Mailing Address: 9300 E HALL RD
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Tons: 2.2935
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

ECHO:
Envid: 1001217515
Registry ID: 110002920858
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002920858

A5 **OMNI TEAM INC** **HAZNET** **S112963204**
Target **9300 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 5 of 23 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S112963204
Year:	2007
GEPAID:	CAC002619449
Contact:	BOB WARWICK
Telephone:	5629239660
Mailing Name:	Not reported
Mailing Address:	9300 HALL RD
Mailing City,St,Zip:	DOWNEY, CA 90241
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.3
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S112963204
Year:	2007
GEPAID:	CAC002619449
Contact:	BOB WARWICK
Telephone:	5629239660
Mailing Name:	Not reported
Mailing Address:	9300 HALL RD
Mailing City,St,Zip:	DOWNEY, CA 90241
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.18
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

A6 **WESTERN PACIFIC PULP & PAPER** **FINDS** **1016344508**
Target **9350 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 6 of 23 in cluster A

Actual:
110 ft.

FINDS:

Registry ID: 110038284647

Environmental Interest/Information System
STATE MASTER

SSTS (Section Seven Tracking System) evolved from the FIFRA and TSCA Enforcement System (FATES). SSTS tracks the registration of all pesticide-producing establishments and tracks annually the types and

WESTERN PACIFIC PULP & PAPER (Continued) **1016344508**

amounts of pesticides, active ingredients, and related devices that are produced, sold, or distributed each year.

A7 **ANDERSON TRUCKING COMPANY** **HAZNET** **S112863636**
Target **9400 HALL RD** **N/A**
Property **DOWNEY, CA 90041**

Site 7 of 23 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S112863636
Year:	1995
GEPAID:	CAC001054784
Contact:	ANDERSON TRUCKING COMPANY
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	9400 HALL RD
Mailing City,St,Zip:	DOWNEY, CA 900410000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Transfer Station
Tons:	1.0000
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

A8 **HEGGER REALITY CT** **HAZNET** **S112874729**
Target **9400 HALL RD** **N/A**
Property **DOWNEY, CA 90041**

Site 8 of 23 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S112874729
Year:	1996
GEPAID:	CAC001213976
Contact:	HEGGER REALITY CO
Telephone:	2137271144
Mailing Name:	Not reported
Mailing Address:	5657 E WASHINTON BLVD
Mailing City,St,Zip:	LOS ANGELES, CA 900400000
Gen County:	Not reported
TSD EPA ID:	CAD000088282
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Tons:	.5500
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

A9 **WESTERN PACIFIC PULP & PAPER** **ICIS** **1017819613**
Target **9400 HALL RD** **FINDS** **N/A**
Property **DOWNEY, CA 90241**

Site 9 of 23 in cluster A

Actual:
110 ft.

ICIS:

Enforcement Action ID:	09-200125079
FRS ID:	110064501123
Action Name:	Western Pacific Pulp & Paper Ref # F-09-15-23
Facility Name:	WESTERN PACIFIC PULP & PAPER
Facility Address:	9400 HALL RD DOWNEY, CA 90241
Enforcement Action Type:	Notice of Violation
Facility County:	Not reported
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	33.929461
Longitude in Decimal Degrees:	-118.118979
Permit Type Desc:	Not reported
Program System Acronym:	3600056676
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

FINDS:

Registry ID: 110064501123

Environmental Interest/Information System
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 it 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.

A10 **HEGER REALTY CORP. DOWNY INDUS. CTR.** **HAZNET** **S112853951**
Target **9400 HALL ROAD** **N/A**
Property **DOWNEY, CA 90241**

Site 10 of 23 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S112853951
Year:	1995
GEPAID:	CAC000931088

HEGER REALTY CORP. DOWNY INDUS. CTR. (Continued) **S112853951**

Contact:	MARJORIE DAVIS, CEO
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	5657 E WASHINGTON BLVD
Mailing City,St,Zip:	LOS ANGELES, CA 900400000
Gen County:	Not reported
TSD EPA ID:	CAD980883177
TSD County:	Not reported
Waste Category:	Tank bottom waste
Disposal Method:	Recycler
Tons:	39.1980
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S112853951
Year:	1995
GEPAID:	CAC000931088
Contact:	MARJORIE DAVIS, CEO
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	5657 E WASHINGTON BLVD
Mailing City,St,Zip:	LOS ANGELES, CA 900400000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Transfer Station
Tons:	1.2642
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S112853951
Year:	1995
GEPAID:	CAC000931088
Contact:	MARJORIE DAVIS, CEO
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	5657 E WASHINGTON BLVD
Mailing City,St,Zip:	LOS ANGELES, CA 900400000
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Recycler
Tons:	10.4250
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S112853951
Year:	1995
GEPAID:	CAC000931088
Contact:	MARJORIE DAVIS, CEO
Telephone:	0000000000

HEGER REALTY CORP. DOWNY INDUS. CTR. (Continued) **S112853951**

Mailing Name:	Not reported
Mailing Address:	5657 E WASHINGTON BLVD
Mailing City,St,Zip:	LOS ANGELES, CA 900400000
Gen County:	Not reported
TSD EPA ID:	CAD980883177
TSD County:	Not reported
Waste Category:	Tank bottom waste
Disposal Method:	Not reported
Tons:	10.4250
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

A11 **WESTERN PACIFIC PULP & PAPER** **LUST** **S101442129**
Target **9350 HALL RD** **SWEEPS UST** **N/A**
Property **DOWNEY, CA 90241** **HAZNET**
HIST CORTESE

Site 11 of 23 in cluster A

Actual:
110 ft.

LUST:

Region:	STATE
Global Id:	T0603704078
Latitude:	33.9292609
Longitude:	-118.118582
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/20/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-13583
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704078
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704078
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

WESTERN PACIFIC PULP & PAPER (Continued) **S101442129**

Status History:

Global Id:	T0603704078
Status:	Completed - Case Closed
Status Date:	08/20/1996
Global Id:	T0603704078
Status:	Open - Case Begin Date
Status Date:	01/17/1995
Global Id:	T0603704078
Status:	Open - Remediation
Status Date:	07/28/1995
Global Id:	T0603704078
Status:	Open - Site Assessment
Status Date:	01/17/1995
Global Id:	T0603704078
Status:	Open - Site Assessment
Status Date:	06/09/1995

Regulatory Activities:

Global Id:	T0603704078
Action Type:	Other
Date:	01/17/1995
Action:	Leak Discovery
Global Id:	T0603704078
Action Type:	Other
Date:	01/17/1995
Action:	Leak Stopped
Global Id:	T0603704078
Action Type:	Other
Date:	01/17/1995
Action:	Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	I-13583
Status:	Case Closed
Substance:	Gasoline
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	Not reported
Global ID:	T0603704078
W Global ID:	Not reported
Staff:	UNK
Local Agency:	19000
Cross Street:	FIRESTONE BLVD
Enforcement Type:	Not reported
Date Leak Discovered:	1/17/1995

WESTERN PACIFIC PULP & PAPER (Continued) **S101442129**

Date Leak First Reported:		1/17/1995
Date Leak Record Entered:	4/6/1995	
Date Confirmation Began:	1/17/1995	
Date Leak Stopped:	1/17/1995	
Date Case Last Changed on Database:		7/15/1996
Date the Case was Closed:		8/20/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	SAME AS ABOVE	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2305.437252882321166932133028 3
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		6/9/1995
Remediation Plan Submitted:		7/28/1995
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	BLANK RP	
RP Address:	PO BOX 241, DOWNEY, CA 90241	
Program:	LUST	
Lat/Long:	33.9305013 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

SWEEPS UST:

Status:	Active
Comp Number:	13583
Number:	9
Board Of Equalization:	44-010191
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-013583-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W

WESTERN PACIFIC PULP & PAPER (Continued) **S101442129**

Content: Not reported
Number Of Tanks: 2

Status: Active
Comp Number: 13583
Number: 9
Board Of Equalization: 44-010191
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-013583-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HAZNET:
envid: S101442129
Year: 2014
GEPAID: CAD981694292
Contact: RANDY MILLS PLANT MANAGER
Telephone: 5628034401
Mailing Name: Not reported
Mailing Address: 9350 HALL RD
Mailing City,St,Zip: DOWNEY, CA 902415309
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.9
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S101442129
Year: 2013
GEPAID: CAD981694292
Contact: RANDY MILLS PLANT MANAGER
Telephone: 5628034401
Mailing Name: Not reported
Mailing Address: 9350 HALL RD
Mailing City,St,Zip: DOWNEY, CA 902415309
Gen County: Los Angeles
TSD EPA ID: OHD048415665
TSD County: 99
Waste Category: Not reported
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 1.5
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

WESTERN PACIFIC PULP & PAPER (Continued) **S101442129**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-13583

A12 **WESTERN PACIFIC PULP & PAPER** **RGA LUST** **S114721343**
Target Property **9350 HALL RD** **N/A**
DOWNEY, CA

Site 12 of 23 in cluster A

Actual: 110 ft.

RGA LUST:

2012	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2011	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2010	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2009	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2008	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2007	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2006	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2005	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2003	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2002	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2001	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
2000	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
1998	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
1997	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
1996	WESTERN PACIFIC PULP & PAPER	9350 HALL RD
1995	WESTERN PACIFIC PULP & PAPER	9350 HALL RD

A13 **WESTERN PACIFIC PULP & PAPER** **SSTS** **1012006919**
Target Property **9350 HALL RD** **N/A**
DOWNEY, CA 90241

Site 13 of 23 in cluster A

Actual: 110 ft.

SSTS:
Product: Not reported
Contact: LUANN SHOEMAKER AGENT/PRINCIPAL CONSULTAN P: 703-425-2110
Status: Not reported
Registration Number: 085738-CA-001
Report Year: 2008
Permit: Not reported
Product Number: Not reported
Product Type: Not reported
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Not reported
Region: 9
Zero product: Yes
Pesticide RUP report: Not reported

Product: Not reported
Contact: LUANN SHOEMAKER AGENT/PRINCIPAL CONSULTAN P: 703-425-2110
Status: Not reported

WESTERN PACIFIC PULP & PAPER (Continued) **1012006919**

Registration Number: 085738-CA-001
Report Year: 2009
Permit: Not reported
Product Number: Not reported
Product Type: Not reported
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Not reported
Region: Not reported
Zero product: Yes
Pesticide RUP report: Not reported

A14 **WESTERN PACIFIC PAPER & PULP** **LOS ANGELES CO. HMS** **S108998987**
Target **9350 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 14 of 23 in cluster A

Actual:
110 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 013262-013583
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 00005203T
Permit Status: Removed

A15 **DURAY INC** **FINDS** **1006249550**
Target **9301 STEWART & GRAY RD** **EMI** **N/A**
Property **DOWNEY, CA 90241**

Site 15 of 23 in cluster A

Actual:
110 ft.

FINDS:

Registry ID: 110010479106

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 4020
Air District Name: SC
SIC Code: 3441
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: 4
Reactive Organic Gases Tons/Yr: 4
Carbon Monoxide Emissions Tons/Yr: 0

DURAY INC (Continued) **1006249550**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996

DURAY INC (Continued) **1006249550**

County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	3
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	4020
Air District Name:	SC
SIC Code:	3469
Air District Name:	SOUTH COAST AQMD

DURAY INC (Continued) **1006249550**

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
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	4020
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:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

A16 **DURAY/J F DUNCAN INDUSTRIES INC** **HAZNET** **S113798321**
Target **9301 STEWART AND GRAY RD** **N/A**
Property **DOWNEY, CA 90241**

Site 16 of 23 in cluster A

Actual:
110 ft.

HAZNET:

envid:	S113798321
Year:	2015
GEPAID:	CAL000345244
Contact:	KEN HORN
Telephone:	5628624269
Mailing Name:	Not reported
Mailing Address:	9301 STEWART AND GRAY RD

DURAY/J F DUNCAN INDUSTRIES INC (Continued) **S113798321**

Mailing City,St,Zip: DOWNEY, CA 902415315
Gen County: Los Angeles
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Unspecified aqueous solution
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.231
Cat Decode: Unspecified aqueous solution
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: S113798321
Year: 2012
GEPAID: CAL000345244
Contact: ELLIOT ADDISON
Telephone: 5628624269
Mailing Name: Not reported
Mailing Address: 9301 STEWART AND GRAY RD
Mailing City,St,Zip: DOWNEY, CA 902415315
Gen County: Los Angeles
TSD EPA ID: CAD981696420
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2085
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

A17 **HUDD DISTRIBUTION SERVICES INC** **LOS ANGELES CO. HMS** **S106025558**
Target **9400 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 17 of 23 in cluster A

Actual:
110 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 023272-032476
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

A18 **OMNI TEMP REFRIGERATION** **LOS ANGELES CO. HMS** **S106025538**
Target **9301 STEWART AND GRAY RD #A** **N/A**
Property **DOWNEY, CA 90242**

Site 18 of 23 in cluster A

Actual:
110 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 026149-035642
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

A19 **JF DUNCAN DURAY INDUSTRIES** **LOS ANGELES CO. HMS** **S106025537**
Target **9301 STEWART AND GRAY RD** **N/A**
Property **DOWNEY, CA 90242**

Site 19 of 23 in cluster A

Actual:
110 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 026148-035640
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

A20 **WESTERN PACIFIC PAPER** **HAZNET** **S112853699**
Target **9350 HALL ST.** **N/A**
Property **DOWNEY, CA 90241**

Site 20 of 23 in cluster A

Actual:
110 ft.

HAZNET:
envid: S112853699
Year: 1994
GEPAID: CAC000928088
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 9350 HALL ST.
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 2.0850
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

A21 **AEROJET ORDNANCE CO** **LOS ANGELES CO. HMS** **S113743800**
Target **9300 HALL RD** **N/A**
Property **DOWNEY, CA 90241**

Site 21 of 23 in cluster A

Actual:
110 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 010688-010632
Facility Type: Not reported
Facility Status: Removed
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

A22 **AEROJET ORDNANCE CO** **SWEEPS UST** **S104537182**
Target **9300 E HALL RD** **N/A**
Property **DOWNEY, CA**

Site 22 of 23 in cluster A

Actual:
110 ft.

SWEEPS UST:
Status: Active
Comp Number: 10632
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

A23 **ROSECRANS AVE. / WOODRUFFAVE. DUMP** **SWF/LF** **S104493080**
LINDALE AVE/CORNUTA AVE/IBBETSON AVE. **N/A**
< 1/8 **BELLFLOWER, CA**
1 ft.

Site 23 of 23 in cluster A

Relative:
Lower

Actual:
109 ft.

SWF/LF (SWIS):
Region: STATE
Facility ID: 19-AA-5345
Lat/Long: 33.9288 / -118.1192
Owner Name: Unknown
Owner Telephone: Not reported
Owner Address: Not reported
Owner Address2: P.O. Box 5
Owner City,St,Zip: Fairfield, CA 94533
Operational Status: Closed
Operator: Not reported
Operator Phone: Not reported

ROSECRANS AVE. / WOODRUFFAVE. DUMP (Continued) **S104493080**

Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Industrial,Commercial
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Annual
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	19-AA-5345
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	0
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	0
Remaining Capacity:	0
Remaining Capacity with Units:	Not reported
Lat/Long:	33.9288 / -118.1192

24
East
< 1/8
0.012 mi.
61 ft.

GOULD-BROWN BOVERI
11711 WOODRUFF AVE
DOWNEY, CA 90241

RCRA-SQG **1000278469**
FINDS **CAD062061973**
ECHO

Relative:
Lower

Actual:
109 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	GOULD-BROWN BOVERI
Facility address:	11711 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD062061973
Mailing address:	WOODRUFF AVE DOWNEY, CA 90241
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	GOULD-BROWN BOVERI

GOULD-BROWN BOVERI (Continued) **1000278469**

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: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002653049

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000278469
Registry ID: 110002653049
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002653049

B25
SE
< 1/8
0.012 mi.
63 ft.

INDUSTRIAL BUILDING
11908 12 WOODRUFF AVE
DOWNEY, CA 90241

Site 1 of 2 in cluster B

RCRA-SQG
FINDS
ECHO

1000428498
CAD982323818

Relative:
Lower

Actual:
107 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	INDUSTRIAL BUILDING
Facility address:	11908 12 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD982323818
Mailing address:	5372 VIA APOLINA YORBA LINDA, CA 92686
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	JANSEN MIRIAM
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:	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

INDUSTRIAL BUILDING (Continued) **1000428498**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/12/1988
Site name:	INDUSTRIAL BUILDING
Classification:	Large Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110006477400

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000428498
Registry ID:	110006477400
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110006477400

C26 **HOLM INDUSTRIES** **LUST** **S108243552**
SSW **9368 STEWART AND GRAY RD** **N/A**
< 1/8 **DOWNEY, CA 90242**
0.015 mi.
80 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
107 ft.

LUST:

Region:	STATE
Global Id:	T0603737698
Latitude:	33.92769
Longitude:	-118.119772
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/13/2011
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MB
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-41000
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

HOLM INDUSTRIES (Continued) **S108243552**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603737698
Contact Type:	Local Agency Caseworker
Contact Name:	GILLIAN MINTIER
Organization Name:	LOS ANGELES COUNTY
Address:	900 SOUTH FREMONT AVE
City:	ALHAMBRA
Email:	gmintier@ladpw.org
Phone Number:	Not reported

Global Id:	T0603737698
Contact Type:	Regional Board Caseworker
Contact Name:	MANUEL R REGALADO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	mregalad@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603737698
Contact Type:	Regional Board Caseworker
Contact Name:	MAGDY BAIADY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mbaiady@waterboards.ca.gov
Phone Number:	2135766699

Status History:

Global Id:	T0603737698
Status:	Completed - Case Closed
Status Date:	09/13/2011

Global Id:	T0603737698
Status:	Open - Case Begin Date
Status Date:	08/24/2004

Global Id:	T0603737698
Status:	Open - Referred
Status Date:	04/13/2009

Global Id:	T0603737698
Status:	Open - Site Assessment
Status Date:	11/21/2006

Global Id:	T0603737698
Status:	Open - Site Assessment
Status Date:	06/08/2009

Regulatory Activities:

Global Id:	T0603737698
Action Type:	RESPONSE
Date:	07/08/2009
Action:	Other Report / Document

HOLM INDUSTRIES (Continued) **S108243552**

Global Id: T0603737698
Action Type: ENFORCEMENT
Date: 09/13/2011
Action: Closure/No Further Action Letter

Global Id: T0603737698
Action Type: Other
Date: 08/24/2004
Action: Leak Discovery

Global Id: T0603737698
Action Type: ENFORCEMENT
Date: 06/08/2009
Action: Staff Letter

Global Id: T0603737698
Action Type: Other
Date: 09/22/2004
Action: Leak Reported

Global Id: T0603737698
Action Type: REMEDIATION
Date: 08/01/2004
Action: Excavation

C27 **COAST POLYMERS INC** **UST** **U003777223**
SSW **9368 STEWART AND GRAY RD** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.015 mi.
80 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
107 ft.

UST:
Facility ID: 14427
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.9288711
Longitude: -118.1181417

D28 **PRIMEX TECHNOLOGIES** **SLIC** **U003777457**
WNW **9236 HALL RD** **UST** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.027 mi.
140 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
110 ft.

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 0302D
Substance: VOCs
Staff: John Geroch

UST:
Facility ID: 22299
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.93107
Longitude: -118.120203

D29 **OLIN ORDINANCE** **ENVIROSTOR** **S102061429**
WNW **9236 HALL RD** **SLIC** **N/A**
< 1/8 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.027 mi.
140 ft. **Site 2 of 4 in cluster D**

Relative:
Higher

Actual:
110 ft.

ENVIROSTOR:

Facility ID:	71002450
Status:	Refer: Local Agency
Status Date:	05/31/2012
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	0.01
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Steve Lavinger
Division Branch:	Cleanup Chatsworth
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.93157
Longitude:	-118.1217
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD052384328
Alias Type:	EPA Identification Number
Alias Name:	71002450
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase I Verification
Completed Date:	11/17/1997
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	09/24/1999

OLIN ORDINANCE (Continued) **S102061429**

Global Id:	SLT43200198
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.9315741
Longitude:	-118.1214448
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0302D
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	011642-011695
Facility Type:	0
Facility Status:	Closed
Area:	1F
Permit Number:	00003265T
Permit Status:	Closed

D30 **GENERAL DYNAMICS OTS (DOWNEY)** **SWEEPS UST** **S101582616**
WNW **9236 E HALL RD** **HIST UST** **N/A**
< 1/8 **DOWNEY, CA 90241** **CA FID UST**
0.027 mi. **EMI**
140 ft. **Site 3 of 4 in cluster D** **LA Co. Site Mitigation**

Relative:
Higher

Actual:
110 ft.

SWEEPS UST:

Status:	Active
Comp Number:	11695
Number:	9
Board Of Equalization:	44-009436
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011695-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	9

Status:	Active
Comp Number:	11695
Number:	9
Board Of Equalization:	44-009436
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000006
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000007
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695
Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000008
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11695

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Number: 9
Board Of Equalization: 44-009436
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011695-000009
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 000261C2
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000261C2.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 19000752
Regulated By: UTNKA
Regulated ID: 00017154
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: 9236 E HALL RD
Mailing Address 2: Not reported
Mailing City,St,Zip: DOWNEY
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Comments: Not reported
Status: Active

EMI:

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	22128
Air District Name:	SC
SIC Code:	2892
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:	26
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	22128
Air District Name:	SC
SIC Code:	2892
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:	26
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	101380
Air District Name:	SC
SIC Code:	3489
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:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LA Co. Site Mitigation:

GENERAL DYNAMICS OTS (DOWNEY) (Continued) **S101582616**

Facility ID: Not reported
Site ID: SD0000436
Jurisdiction: Not reported
Case ID: RO0001437
Abated: Yes
Assigned To: Richard Clark
Entered Date: Not reported
Abated Date: Not reported

D31 GENERAL DYNAMICS OTS **RCRA-SQG 1000332997**
WNW 9236 E HALL RD **FINDS CAD052384328**
< 1/8 DOWNEY, CA 90241 **WDS**
0.027 mi.
140 ft. Site 4 of 4 in cluster D

Relative: Higher

Actual: 110 ft.

RCRA-SQG:
Date form received by agency: 02/26/2002
Facility name: GENERAL DYNAMICS OTS
Facility address: 9236 E HALL RD
DOWNEY, CA 90241
EPA ID: CAD052384328
Contact: DODWELL DE SILVA
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (562) 904-7412
Contact email: Not reported
EPA Region: 09
Land type: Private
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

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/26/2002
Site name: GENERAL DYNAMICS OTS
Classification: Large Quantity Generator

GENERAL DYNAMICS OTS (Continued) **1000332997**

Date form received by agency: 02/13/2001
Site name: GENERAL DYNAMICS OTS (DOWNEY) INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT

GENERAL DYNAMICS OTS (Continued) **1000332997**

FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 10/12/2000
Site name: PRIMEX TECHNOLOGIES
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: PRIMEX TECHNOLOGIES
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: GENERAL DYNAMICS OTS (DOWNEY) INC
Classification: Large Quantity Generator

Date form received by agency: 02/15/1996
Site name: OLIN ORDNANCE
Classification: Large Quantity Generator

Date form received by agency: 03/24/1994
Site name: AEROJET ORDNANCE
Classification: Large Quantity Generator

Date form received by agency: 02/24/1992
Site name: AEROJET ORDNANCE CO
Classification: Large Quantity Generator

Date form received by agency: 03/30/1990
Site name: AEROJET ORDNANCE CO
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/07/1990
Date achieved compliance: 11/28/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/10/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/07/1990
Date achieved compliance: 11/28/1990
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported

GENERAL DYNAMICS OTS (Continued) **1000332997**

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: 03/24/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 08/07/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/28/1990
Evaluation lead agency: EPA

FINDS:

Registry ID: 110057118783

Environmental Interest/Information System
STATE MASTER

WDS:
Facility ID: 4 19I011008
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
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: 5629047412
Facility Contact: DODWELL DE SILVA
Agency Name: GENERAL DYNAMICS OTS
Agency Address: 9236 Hall Rd
Agency City,St,Zip: Downey 902415308
Agency Contact: DODWELL DE SILVA
Agency Telephone: 5629047412
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported

GENERAL DYNAMICS OTS (Continued) **1000332997**

Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
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 thosewho 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.

B32 **NORTHERN TRUST BANK OF CAL NA** **RCRA-SQG** **1000368440**
SE **11911 WOODRUFF AVE** **FINDS** **CAD981620883**
< 1/8 **DOWNEY, CA 90241**
0.028 mi.
146 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
107 ft.

RCRA-SQG:
Date form received by agency: 08/19/1997
Facility name: NORTHERN TRUST BANK OF CAL NA
Facility address: 11911 WOODRUFF AVE
DOWNEY, CA 90241
EPA ID: CAD981620883
Mailing address: 355 SO GRAND AVE STE 2600
LOS ANGELES, CA 90071
Contact: ROGER MERRICK
Contact address: 355 SO GRAND AVE STE 2600
LOS ANGELES, CA 90071
Contact country: US
Contact telephone: (213) 346-1300
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: KEVIN KELLEY
Owner/operator address: 11911 WOODRUFF AVE
DOWNEY, CA 90241
Owner/operator country: Not reported
Owner/operator telephone: (310) 803-3953
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

NORTHERN TRUST BANK OF CAL NA (Continued) **1000368440**

Owner/operator name: NORTHERN TRUST AS TRUSTEE
Owner/operator address: 355 SO GRAND AVE STE 2600
LOS ANGELES, CA 90071
Owner/operator country: Not reported
Owner/operator telephone: (213) 346-1371
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: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/19/1997
Site name: NORTHERN TRUST BANK OF CAL NA
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

Date form received by agency: 09/01/1996
Site name: NORTHERN TRUST BANK OF CAL NA
Classification: Small Quantity Generator

Date form received by agency: 09/10/1994
Site name: NORTHERN TRUST BANK OF CAL NA
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002726872

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

E33
ESE
< 1/8
0.038 mi.
200 ft.

11860 WOODRUFF AVE
DOWNEY, CA 90241

Site 1 of 3 in cluster E

EDR Hist Auto **1015175157**
N/A

Relative:
Lower

Actual:
107 ft.

EDR Historical Auto Stations:

Name:	HANSONS AUTOMOTIVE ENGINEER
Year:	2001
Address:	11860 WOODRUFF AVE
Name:	HANSONS AUTOMOTIVE ENGINEERING
Year:	2002
Address:	11860 WOODRUFF AVE
Name:	HANSONS AUTOMOTIVE ENGINEERING
Year:	2003
Address:	11860 WOODRUFF AVE
Name:	HANSONS AUTOMOTIVE ENGINEERING
Year:	2004
Address:	11860 WOODRUFF AVE
Name:	HANSONS AUTOMOTIVE ENGINEER
Year:	2005
Address:	11860 WOODRUFF AVE

34
NE
< 1/8
0.039 mi.
204 ft.

FINE MACHINE INC
11255 WOODRUFF AVE
DOWNEY, CA 90241

RCRA-SQG **1000197510**
FINDS **CAD982049983**
HAZNET
ECHO

Relative:
Higher

Actual:
112 ft.

RCRA-SQG:

Date form received by agency:	10/19/1987
Facility name:	FINE MACHINE INC
Facility address:	11255 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD982049983
Contact:	ENVIRONMENTAL MANAGER
Contact address:	11255 WOODRUFF AVE DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 861-0819
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:	FINE MACHINE INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212

FINE MACHINE INC (Continued) **1000197510**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002788644

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1000197510
Year: 2005
GEPAID: CAD982049983
Contact: OW FINE

FINE MACHINE INC (Continued) **1000197510**

Telephone: --
Mailing Name: Not reported
Mailing Address: 11255 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Disposal, Land Fill
Tons: 0.68
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000197510
Year: 2005
GEPAID: CAD982049983
Contact: OW FINE
Telephone: --
Mailing Name: Not reported
Mailing Address: 11255 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: Disposal, Land Fill
Tons: 0.2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

ECHO:
Envid: 1000197510
Registry ID: 110002788644
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002788644

E35 **EDR Hist Auto** **1015174941**
ESE **11840 WOODRUFF AVE** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.044 mi.
230 ft. **Site 2 of 3 in cluster E**

Relative:
Lower

Actual:
107 ft.

EDR Historical Auto Stations:
Name: ARTISTIC BODY SHOP
Year: 1999
Address: 11840 WOODRUFF AVE

Name: ARTISTIC BODY SHOP
Year: 2001
Address: 11840 WOODRUFF AVE

Name: ARTISTIC BODY SHOP
Year: 2002
Address: 11840 WOODRUFF AVE

Name: SUPERSTAR AUTO REPAIR

(Continued) **1015174941**

Year: 2003
Address: 11840 WOODRUFF AVE

Name: SUPERSTAR AUTO REPAIR
Year: 2009
Address: 11840 WOODRUFF AVE

E36 **REED GRAIN & MILLING CO** **DRYCLEANERS** **S112920062**
ESE **11814 WOODRUFF AVE** **HAZNET** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.044 mi.
230 ft. **Site 3 of 3 in cluster E**

Relative:
Lower

Actual:
107 ft.

DRYCLEANERS:
EPA Id: CAL000371058
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 01/25/2012
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: SR MAINTENANCE & MANAGEMENT SERVICE
Owner Address: 9525 STEWART AND GRAY RD
Owner Address 2: Not reported
Owner Telephone: 5627769040
Contact Name: SERGIO SAN ROMAN
Contact Address: 9525 STEWART & GRAY RD
Contact Address 2: Not reported
Contact Telephone: 5627769040
Mailing Name: Not reported
Mailing Address 1: 9525 STEWART AND GRAY RD
Mailing Address 2: Not reported
Mailing City: DOWNEY
Mailing State: CA
Mailing Zip: 902415519
Owner Fax: Not reported
Region Code: 3

HAZNET:
envid: S112920062
Year: 2001
GEPAID: CAC002484447
Contact: PAM HEINTZ/UNITED PUMPING CO
Telephone: 6269619326
Mailing Name: Not reported
Mailing Address: 6010 BALL RD STE 201
Mailing City,St,Zip: CYPRESS, CA 906300000
Gen County: Not reported
TSD EPA ID: AZD980892731
TSD County: Not reported
Waste Category: Off-specification, aged or surplus inorganics
Disposal Method: Treatment, Incineration
Tons: 0.01
Cat Decode: Not reported
Method Decode: Not reported

REED GRAIN & MILLING CO (Continued) **S112920062**

Facility County: Los Angeles

37
East
< 1/8
0.069 mi.
363 ft.

GOLDEN W PIPE & SUPPLY INC **SWEEPS UST** **S106926788**
11700 WOODRUFF AVE **N/A**
DOWNEY, CA

Relative:
Lower

Actual:
108 ft.

SWEEPS UST:

Status:	Active
Comp Number:	11251
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

F38
SW
< 1/8
0.073 mi.
388 ft.

WATER YARD **HIST UST** **U001562944**
9252 STEWART AND GRAY RD **N/A**
DOWNEY, CA 90241

Site 1 of 2 in cluster F

Relative:
Lower

Actual:
107 ft.

HIST UST:

File Number:	00026FDD
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026FDD.pdf
Region:	STATE
Facility ID:	00000047215
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	GREG MAYFIELD
Telephone:	2138697331
Owner Name:	CITY OF DOWNEY
Owner Address:	11111 BROOKSHIRE AVE. CALLER N
Owner City,St,Zip:	DOWNEY, CA 90241
Total Tanks:	0001
Tank Num:	001
Container Num:	#7
Year Installed:	1965
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

WATER YARD (Continued) **U001562944**

Click here for Geo Tracker PDF:

F39 **CITY OF DOWNEY** **SWEEPS UST** **S101587157**
SW **9252 STEWART RD** **CA FID UST** **N/A**
< 1/8 **DOWNEY, CA**
0.073 mi.
388 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
107 ft.

SWEEPS UST:

Status:	Active
Comp Number:	11659
Number:	9
Board Of Equalization:	44-009414
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011659-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

CA FID UST:

Facility ID:	19054986
Regulated By:	UTNKA
Regulated ID:	00047215
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8180000000
Mail To:	Not reported
Mailing Address:	12324 BELLFLOWER
Mailing Address 2:	Not reported
Mailing City,St,Zip:	DOWNEY
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

G40 **METALSOURCE** **SWEEPS UST** **S104538812**
SE **11939 WOODRUFF AVE** **LOS ANGELES CO. HMS** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.074 mi.
391 ft. **Site 1 of 4 in cluster G**

Relative:
Lower

Actual:
106 ft.

SWEEPS UST:

Status:	Active
Comp Number:	10350
Number:	9
Board Of Equalization:	Not reported

METALSOURCE (Continued) **S104538812**

Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 010433-010350
Facility Type: Not reported
Facility Status: Removed
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

G41 **EDR Hist Auto** **1015176563**
SE **11939 WOODRUFF AVE** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.074 mi.
391 ft. **Site 2 of 4 in cluster G**

Relative:
Lower

Actual:
106 ft.

EDR Historical Auto Stations:
Name: RADIATOR HIGHWAY
Year: 2004
Address: 11939 WOODRUFF AVE

G42 **INCO EXPRESS INC** **UST** **U003777056**
SE **11941 WOODRUFF AVE** **SWEEPS UST** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.076 mi.
403 ft. **Site 3 of 4 in cluster G**

Relative:
Lower

Actual:
106 ft.

UST:
Facility ID: 12833
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.92672
Longitude: -118.11672

SWEEPS UST:
Status: Active
Comp Number: 12833
Number: 9
Board Of Equalization: 44-009942
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported

INCO EXPRESS INC (Continued) **U003777056**

SWRCB Tank Id: 19-000-012833-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 3

Status: Active
Comp Number: 12833
Number: 9
Board Of Equalization: 44-009942
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-012833-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 12833
Number: 9
Board Of Equalization: 44-009942
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-012833-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

G43 **INCO EXPRESS INC** **LUST S108723479**
SE **11941 SOUTH WOODRUFF AVENUE** **HIST UST N/A**
< 1/8 **DOWNEY, CA 90241**
0.076 mi.
403 ft. **Site 4 of 4 in cluster G**

Relative:
Lower

Actual:
106 ft.

LUST:
Region: STATE
Global Id: T0603719104
Latitude: 33.926348
Longitude: -118.116705
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/17/2007
Lead Agency: LOS ANGELES COUNTY

INCO EXPRESS INC (Continued) **S108723479**

Case Worker:	TS
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	CLUP# 483428
File Location:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603719104
Contact Type:	Local Agency Caseworker
Contact Name:	TIM SMITH
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	tsmith@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603719104
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603719104
Status:	Completed - Case Closed
Status Date:	07/17/2007

Global Id:	T0603719104
Status:	Open - Case Begin Date
Status Date:	09/14/2006

Global Id:	T0603719104
Status:	Open - Site Assessment
Status Date:	07/16/2007

Regulatory Activities:

Global Id:	T0603719104
Action Type:	Other
Date:	09/14/2006
Action:	Leak Discovery

Global Id:	T0603719104
Action Type:	Other
Date:	09/14/2006
Action:	Leak Reported

Global Id:	T0603719104
Action Type:	REMEDIATION
Date:	05/09/2006

INCO EXPRESS INC (Continued) **S108723479**

Action: Not reported

HIST UST:

File Number:	00026F57
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026F57.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

44
NNE
< 1/8
0.080 mi.
421 ft.

Relative:
Higher

Actual:
112 ft.

FIRESTONE CHRYSLER PLYMOUTH **RCRA-SQG** **1000222942**
9262 E FIRESTONE BLVD **SWEEPS UST** **CAD981979669**
DOWNEY, CA 90241 **HIST UST**
FINDS
LOS ANGELES CO. HMS
ECHO

RCRA-SQG:

Date form received by agency:	04/10/1987
Facility name:	FIRESTONE CHRYSLER PLYMOUTH
Facility address:	9262 E FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAD981979669
Mailing address:	E FIRESTONE BLVD DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9262 E FIRESTONE BLVD DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 803-1515
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

FIRESTONE CHRYSLER PLYMOUTH (Continued) **1000222942**

Owner/Operator Summary:

Owner/operator name:	FENTONWOOD MANAGEMENT
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:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

SWEEPS UST:

Status:	Active
Comp Number:	13115
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

FIRESTONE CHRYSLER PLYMOUTH (Continued) **1000222942**

HIST UST:

File Number:	0002810A
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002810A.pdf
Region:	STATE
Facility ID:	00000067704
Facility Type:	Other
Other Type:	NEW CAR DEALER
Contact Name:	MARTY MEADOR
Telephone:	2138031515
Owner Name:	MS. DORTHY TATTI
Owner Address:	9102 FIRESTONE BLVD.
Owner City,St,Zip:	DOWNEY, CA 90241
Total Tanks:	0001
Tank Num:	001
Container Num:	#1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	5
Container Construction Thickness:	X
Leak Detection:	None

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110002763000

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	003452-013115
Facility Type:	0
Facility Status:	Removed
Area:	1F
Permit Number:	00004840T
Permit Status:	Removed

Region:	LA
Permit Category:	T
Facility Id:	003452-013115
Facility Type:	1
Facility Status:	Removed
Area:	1F
Permit Number:	0000T4840
Permit Status:	Removed

FIRESTONE CHRYSLER PLYMOUTH (Continued) **1000222942**

Region: LA
Permit Category: I
Facility Id: 003452-I03571
Facility Type: 00
Facility Status: Closed
Area: 1F
Permit Number: 000001618
Permit Status: Closed

ECHO:
Envid: 1000222942
Registry ID: 110002763000
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002763000

H45 **MCGEAN CHEM CO INC** **RCRA-SQG** **1000200129**
ESE **9520 E CEE BEE DR** **FINDS** **CAD072949365**
< 1/8 **DOWNEY, CA 90241** **ECHO**
0.104 mi.
549 ft. **Site 1 of 3 in cluster H**

Relative:
Lower

Actual:
106 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: MCGEAN CHEM CO INC
Facility address: 9520 E CEE BEE DR
DOWNEY, CA 90241
EPA ID: CAD072949365
Mailing address: 9520 EAST CEE BEE DRIVE
DOWNEY, CA 90241
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
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: MCGEAN CHEMICAL CO INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported

MCGEAN CHEM CO INC (Continued) **1000200129**

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: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/05/1981
Site name: MCGEAN CHEM CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002657045

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

STATE MASTER

ECHO:
Envid: 1000200129
Registry ID: 110002657045
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002657045

H46 **MCGEAN-ROHCO INC** **RCRA-SQG** **1000200146**
ESE **9520 E CEE BEE DRIVE** **SWEEPS UST** **CAD981457864**
< 1/8 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.104 mi.
549 ft. **Site 2 of 3 in cluster H**

Relative:
Lower

Actual:
106 ft.

RCRA-SQG:

Date form received by agency:	02/27/2002
Facility name:	MCGEAN-ROHCO INC
Facility address:	9520 E CEE BEE DRIVE DOWNEY, CA 90241
EPA ID:	CAD981457864
Mailing address:	HARVARD AVE CLEVALAND, OH 44105
Contact:	JITENDRA U GANDHI
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(216) 441-4900
Telephone ext.:	3233
Contact email:	JITU.GANDHI@MCGEAN.COM
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

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/27/2002
Site name:	MCGEAN-ROHCO INC
Classification:	Large Quantity Generator

. Waste code: 214
. Waste name: 214

. Waste code: 791
. Waste name: 791

. Waste code: 801

MCGEAN-ROHCO INC (Continued) **1000200146**

. Waste name: 801

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P016
. Waste name: DICHLOROMETHYL ETHER (OR) METHANE, OXYBIS[CHLORO-

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P121
. Waste name: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123

MCGEAN-ROHCO INC (Continued) **1000200146**

. Waste name: FORMIC ACID (C,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U161
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 09/01/1996
Site name: MCGEAN-ROHCO INC
Classification: Small Quantity Generator

Date form received by agency: 04/03/1986
Site name: MCGEAN-ROHCO INC
Classification: Large Quantity Generator

Violation Status: No violations found

SWEEPS UST:
Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 8

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported

MCGEAN-ROHCO INC (Continued) **1000200146**

Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89

MCGEAN-ROHCO INC (Continued) **1000200146**

Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000006
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000007
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 1310
Number: 9
Board Of Equalization: 44-007544
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-001310-000008
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

MCGEAN-ROHCO INC (Continued) **1000200146**

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 001249-001310
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 00002364T
Permit Status: Removed

Region: LA
Permit Category: I
Facility Id: 001249-I01310
Facility Type: 00
Facility Status: Closed
Area: 1F
Permit Number: 00000815X
Permit Status: Closed

H47 **MCGEAN-ROHCO, INC.** **LUST** **S104406626**
ESE **9520 CEEBEE DR E** **HIST CORTESE** **N/A**
< 1/8 **DOWNEY, CA 90241**
0.104 mi.
549 ft. **Site 3 of 3 in cluster H**

Relative:
Lower

Actual:
106 ft.

LUST:
Region: STATE
Global Id: T0603704555
Latitude: 33.9277803
Longitude: -118.1154583
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/20/1998
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-01310
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603704555
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704555
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG

MCGEAN-ROHCO, INC. (Continued) **S104406626**

Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603704555
Status: Completed - Case Closed
Status Date: 07/20/1998

Global Id: T0603704555
Status: Open - Case Begin Date
Status Date: 12/04/1997

Regulatory Activities:
Global Id: T0603704555
Action Type: Other
Date: 01/21/1998
Action: Leak Discovery

Global Id: T0603704555
Action Type: Other
Date: 12/04/1997
Action: Leak Stopped

Global Id: T0603704555
Action Type: Other
Date: 02/18/1998
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-01310
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: OT
Global ID: T0603704555
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: STEWART
Enforcement Type: Not reported
Date Leak Discovered: 1/21/1998
Date Leak First Reported: 2/18/1998
Date Leak Record Entered: 3/25/1998
Date Confirmation Began: Not reported
Date Leak Stopped: 12/4/1997
Date Case Last Changed on Database: 7/20/1998
Date the Case was Closed: 7/20/1998

MCGEAN-ROHCO, INC. (Continued) **S104406626**

How Leak Discovered:	Tank Closure
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	HARVEY HANS
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	1116.8578346358181555817292867
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	MCGEAN-ROHCO, INC.
RP Address:	1250 TERMINAL TOWER, CLEAVELAND OH 44113-2251
Program:	LUST
Lat/Long:	33.9277803 / -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:	CLOSURE APPLICATION #205714

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-01310

48
NW
< 1/8
0.110 mi.
581 ft.

9128 MARGARET ST
DOWNEY, CA 90241

EDR Hist Cleaner **1015105529**
N/A

Relative:
Higher

Actual:
112 ft.

EDR Historical Cleaners:

Name:	CRM BEST CLEANING SERVICES
Year:	2005
Address:	9128 MARGARET ST

49
NE
< 1/8
0.118 mi.
624 ft.

CITY CLEANERS & TAILORS
9400 FIRESTONE BLVD
DOWNEY, CA 90239

EDR Hist Cleaner

1009125739
N/A

Relative:
Higher

Actual:
112 ft.

EDR Historical Cleaners:
Name: CITY CLEANERS & TAILORS
Year: 1957
Type: Not reported

I50
North
< 1/8
0.119 mi.
628 ft.

9240 FIRESTONE BLVD
DOWNEY, CA 90241

Site 1 of 3 in cluster I

EDR Hist Auto

1015676687
N/A

Relative:
Higher

Actual:
113 ft.

EDR Historical Auto Stations:
Name: SOUTHERN CALIFORNIA GAS C
Year: 2001
Address: 9240 FIRESTONE BLVD

J51
NNE
< 1/8
0.120 mi.
635 ft.

LLOYD'S CLEANERS
9312 E FIRESTONE BLVD
DOWNEY, CA 90239

Site 1 of 9 in cluster J

EDR Hist Cleaner

1009125799
N/A

Relative:
Higher

Actual:
112 ft.

EDR Historical Cleaners:
Name: LLOYD'S CLEANERS
Year: 1963
Type: Not reported

J52
NNE
< 1/8
0.120 mi.
636 ft.

PLAZA CLEANERS
9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241

Site 2 of 9 in cluster J

RCRA-SQG
FINDS
ECHO

1000472943
CAD982435968

Relative:
Higher

Actual:
112 ft.

RCRA-SQG:
Date form received by agency: 07/15/1996
Facility name: PLAZA CLEANERS
Facility address: 9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241
EPA ID: CAD982435968
Contact: MAGALLANES SOFIA
Contact address: 9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241
Contact country: US
Contact telephone: (310) 803-0224
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

PLAZA CLEANERS (Continued) **1000472943**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MAGALLANES YANEZ SOFIA
Owner/operator address: 9304 1/4 E FIRESTONE BLVD
DOWNEY, CA 90241
Owner/operator country: Not reported
Owner/operator telephone: (310) 803-0224
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008277765

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

PLAZA CLEANERS (Continued) **1000472943**

Envid: 1000472943
Registry ID: 110008277765
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110008277765

J53 **KENNY'S SERVICE** **EDR Hist Auto** **1008995328**
NNE **9328 FIRESTONE BLVD** **N/A**
< 1/8 **DOWNEY, CA 90239**
0.121 mi.
637 ft. **Site 3 of 9 in cluster J**

Relative:
Higher

Actual:
112 ft.

EDR Historical Auto Stations:
Name: KENNY'S SERVICE
Year: 1957
Type: Not reported

J54 **DICK & AL'S SERVICE** **EDR Hist Auto** **1008995379**
NNE **9328 E FIRESTONE BLVD** **N/A**
< 1/8 **DOWNEY, CA 90239**
0.121 mi.
637 ft. **Site 4 of 9 in cluster J**

Relative:
Higher

Actual:
112 ft.

EDR Historical Auto Stations:
Name: DICK & AL'S SERVICE
Year: 1963
Type: Not reported

I55 **SAN FERNANDO CREAMERY** **SWEEPS UST** **S102061411**
NNW **9220 E FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.128 mi.
676 ft. **Site 2 of 3 in cluster I**

Relative:
Higher

Actual:
113 ft.

SWEEPS UST:
Status: Active
Comp Number: 13561
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

K56 **CUMMINS PACIFIC, LLC** **AST** **A100419214**
ESE **9520 STEWART AND GRAY RD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.130 mi.
686 ft. **Site 1 of 2 in cluster K**

Relative:
Lower

Actual:
107 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	MARK YRAGUI
Total Gallons:	Not reported
CERSID:	10303510
Facility ID:	LACoFA0039724
Business Name:	CUMMINS PACIFIC, LLC
Phone:	(562) 415-2800
Fax:	Not reported
Mailing Address:	9520 STEWART & GRAY ROAD
Mailing Address City:	DOWNEY
Mailing Address State:	CA
Mailing Address Zip Code:	90241
Operator Name:	SUSAN MORALES
Operator Phone:	(562) 415-2801
Owner Phone:	(949) 253-6000
Owner Mail Address:	1939 DEERE AVE
Owner State:	CA
Owner Zip Code:	92606
Owner Country:	United States
Property Owner Name:	Mark Yragui
Property Owner Phone:	(949)253-6000
Property Owner Mailing Address:	1939 Deere Ave
Property Owner City:	Irvine
Property Owner Stat :	CA
Property Owner Zip Code:	92606
Property Owner Country:	United States
EPAID:	CAL000326402

K57 **SR MAINTENANCE & MANAGEMENT SERVICES INC** **DRYCLEANERS** **S113157239**
ESE **9525 STEWART AND GRAY RD** **HAZNET** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.138 mi.
731 ft. **Site 2 of 2 in cluster K**

Relative:
Lower

Actual:
108 ft.

DRYCLEANERS:

EPA Id:	CAL000367231
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	09/07/2011
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	SR MAINTENANCE & MANAGEMENT SERVICE
Owner Address:	9525 STEWART AND GRAY RD
Owner Address 2:	Not reported
Owner Telephone:	5627769040
Contact Name:	SERGIO SAN ROMAN
Contact Address:	9525 STEWART & GRAY RD
Contact Address 2:	Not reported
Contact Telephone:	5627769040
Mailing Name:	Not reported

SR MAINTENANCE & MANAGEMENT SERVICES INC (Continued) **S113157239**

Mailing Address 1:	9525 STEWART AND GRAY RD
Mailing Address 2:	Not reported
Mailing City:	DOWNEY
Mailing State:	CA
Mailing Zip:	902415519
Owner Fax:	Not reported
Region Code:	3

HAZNET:

envid:	S113157239
Year:	2011
GEPAID:	CAL000346959
Contact:	TONY CASILLAS
Telephone:	3233530116
Mailing Name:	Not reported
Mailing Address:	9525 STEWART AND GRAY RD
Mailing City,St,Zip:	DOWNEY, CA 902415519
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.646
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

L58 **RAHNS FURNITURE REFINISHING** **RCRA-SQG 1000319210**
NNW **9102 FIRESTONE** **FINDS CAD981643000**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.148 mi.
779 ft. **Site 1 of 4 in cluster L**

Relative:
Higher

Actual:
113 ft.

RCRA-SQG:

Date form received by agency:	01/09/1987
Facility name:	RAHNS FURNITURE REFINISHING
Facility address:	9102 FIRESTONE DOWNEY, CA 90241
EPA ID:	CAD981643000
Mailing address:	FIRESTONE DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9102 FIRESTONE DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 861-5400
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

RAHNS FURNITURE REFINISHING (Continued) **1000319210**

Owner/Operator Summary:

Owner/operator name:	GRANT PAUL RAHN
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:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002736353

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000319210
Registry ID:	110002736353

RAHNS FURNITURE REFINISHING (Continued) **1000319210**

DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002736353

I59 **GOODYEAR TIRE STORE #9226** **RCRA-SQG** **1000194862**
North **9245 E FIRESTONE BLVD** **FINDS** **CAD149983835**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.149 mi.
789 ft. **Site 3 of 3 in cluster I**

Relative:
Higher

Actual:
113 ft.

RCRA-SQG:

Date form received by agency:	08/11/1986
Facility name:	GOODYEAR TIRE STORE #9226
Facility address:	9245 E FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAD149983835
Mailing address:	E FIRESTONE BLVD DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9245 E FIRESTONE BLVD DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 869-2239
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:	GOODYEAR TIRE & RUBBER 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

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

GOODYEAR TIRE STORE #9226 (Continued) **1000194862**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002668952

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000194862
Registry ID: 110002668952
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002668952

M60 **APTOS ESPLANADE PUMP STAT** **HIST CORTESE** **S103625346**
SSE **12007 WOODRUFF** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.152 mi.
802 ft. **Site 1 of 3 in cluster M**

Relative:
Lower

Actual:
104 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 3045

J61 **SHELL SERVICE STATION** **RCRA-SQG** **1006805383**
NNE **9305 E FIRESTONE** **HIST UST** **CAR000126458**
1/8-1/4 **DOWNEY, CA 90241** **FINDS**
0.162 mi. **HAZNET**
854 ft. **Site 5 of 9 in cluster J** **LOS ANGELES CO. HMS**
ECHO

Relative:
Higher

Actual:
113 ft.

RCRA-SQG:
Date form received by agency: 08/16/2002
Facility name: SHELL SERVICE STATION
Facility address: 9305 E FIRESTONE
S A P 135239
DOWNEY, CA 90241

SHELL SERVICE STATION (Continued) **1006805383**

EPA ID: CAR000126458
Mailing address: P O BOX 2648
HOUSTON, TX 772522648
Contact: SONDRA BIENVENU
Contact address: P O BOX 2648
HOUSTON, TX 772522648
Contact country: US
Contact telephone: (713) 241-5036
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: EQUILON ENTERPRISES L L C
Owner/operator address: P O BOX 2648
HOUSTON, TX 77252
Owner/operator country: Not reported
Owner/operator telephone: (713) 241-5036
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: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

HIST UST:
File Number: 000284D5
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000284D5.pdf
Region: Not reported

SHELL SERVICE STATION (Continued) **1006805383**

Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110013307689

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZNET:

envid:	1006805383
Year:	2002
GEPAID:	CAR000126458
Contact:	N CORTEZ/ENVT'L DATA ANALYST
Telephone:	2818742224
Mailing Name:	Not reported
Mailing Address:	12700 NORTHBOROUGH DRIVE MFT 240-G
Mailing City,St,Zip:	Houston, TX 770672508
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Tank bottom waste
Disposal Method:	Treatment, Tank
Tons:	0.68

SHELL SERVICE STATION (Continued) **1006805383**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1006805383
Year: 2002
GEPAID: CAR000126458
Contact: N CORTEZ/ENVT'L DATA ANALYST
Telephone: 2818742224
Mailing Name: Not reported
Mailing Address: 12700 NORTHBOROUGH DRIVE MFT 240-G
Mailing City,St,Zip: Houston, TX 770672508
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 0.2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 009640-056827
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 000711700
Permit Status: Closed

ECHO:
Envid: 1006805383
Registry ID: 110013307689
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110013307689

J62 **SHELL SERVICE STATION** **LUST** **S106116174**
NNE **9305 FIRESTONE BLVD. E.** **N/A**
1/8-1/4 **DOWNEY, CA**
0.162 mi.
854 ft. **Site 6 of 9 in cluster J**

Relative:
Higher

Actual:
113 ft.

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-09468A
Status: Pollution Characterization
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: 9640-26258
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603748443
W Global ID: Not reported
Staff: NC

SHELL SERVICE STATION (Continued) **S106116174**

Local Agency:	19000	
Cross Street:	WOODRUFF	
Enforcement Type:	SEL	
Date Leak Discovered:	10/23/2002	
Date Leak First Reported:		10/23/2002
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	10/23/2002	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		Not reported
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		Not reported
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		2/7/2003
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		6/19/2003
Hist Max MTBE Conc in Groundwater:		430
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:	JOE LENTINI	
RP Address:	P.O. BOX 7869	
Program:	LUST	
Lat/Long:	0 / 0	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

J63 **SHELL OIL #204-2250-0601** **SWEEPS UST** **S101582973**
NNE **9305 FIRESTONE BLVD** **CA FID UST** **N/A**
1/8-1/4 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.162 mi.
854 ft. **Site 7 of 9 in cluster J**

Relative:
Higher

Actual:
113 ft.

SWEEPS UST:

Status:	Active
Comp Number:	9468
Number:	9
Board Of Equalization:	44-000074
Referral Date:	06-30-89

SHELL OIL #204-2250-0601 (Continued) **S101582973**

Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 9468
Number: 9
Board Of Equalization: 44-000074
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9468
Number: 9
Board Of Equalization: 44-000074
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9468
Number: 9
Board Of Equalization: 44-000074
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009468-000004
Tank Status: A
Capacity: Not reported

SHELL OIL #204-2250-0601 (Continued) **S101582973**

Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19002081
Regulated By: UTNKA
Regulated ID: 00016845
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: 9305 E FIRESTONE BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: DOWNEY
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
Permit Category: T
Facility Id: 009640-009468
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 00000654T
Permit Status: Closed

J64 **U R SHELL** **UST** **U003777927**
NNE **9305 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.162 mi.
854 ft. **Site 8 of 9 in cluster J**

Relative:
Higher

Actual:
113 ft.

UST:
Facility ID: 26258
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.933998
Longitude: -118.115895

J65 **SHELL** **LUST** **S102436957**
NNE **9305 FIRESTONE BLVD E** **HIST CORTESE** **N/A**
1/8-1/4 **DOWNEY, CA 90241** **LOS ANGELES CO. HMS**
0.162 mi.
854 ft. **Site 9 of 9 in cluster J**

Relative:
Higher

Actual:
113 ft.

LUST:

Region:	STATE
Global Id:	T0603703423
Latitude:	33.932631
Longitude:	-118.11722
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/25/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-09468
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703423
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703423
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603703423
Status:	Completed - Case Closed
Status Date:	06/25/1996

Global Id:	T0603703423
Status:	Open - Case Begin Date
Status Date:	10/03/1988

Global Id:	T0603703423
Status:	Open - Site Assessment
Status Date:	10/03/1988

SHELL (Continued) **S102436957**

Regulatory Activities:

Global Id:	T0603703423
Action Type:	Other
Date:	10/17/1988
Action:	Leak Discovery

Global Id:	T0603703423
Action Type:	Other
Date:	06/19/1989
Action:	Leak Reported

Region:	STATE
Global Id:	T0603748443
Latitude:	33.932646
Longitude:	-118.11722
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/29/2004
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	NC
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-09468A
LOC Case Number:	9640-26258
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603748443
Contact Type:	Local Agency Caseworker
Contact Name:	LAURA GAJDOS
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0603748443
Contact Type:	Regional Board Caseworker
Contact Name:	NOMAN CHOWDHURY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	nchowdhury@waterboards.ca.gov
Phone Number:	2135766704

Status History:

Global Id:	T0603748443
Status:	Completed - Case Closed
Status Date:	10/29/2004

Global Id:	T0603748443
Status:	Open - Case Begin Date

SHELL (Continued) **S102436957**

Status Date: 10/23/2002

Global Id: T0603748443
Status: Open - Site Assessment
Status Date: 10/23/2002

Global Id: T0603748443
Status: Open - Site Assessment
Status Date: 02/07/2003

Regulatory Activities:

Global Id: T0603748443
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: RESPONSE
Date: 10/30/2003
Action: Other Report / Document

Global Id: T0603748443
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Annually

Global Id: T0603748443
Action Type: RESPONSE
Date: 10/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: Other
Date: 10/23/2002
Action: Leak Discovery

Global Id: T0603748443
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: ENFORCEMENT
Date: 08/27/2003
Action: Staff Letter

Global Id: T0603748443
Action Type: ENFORCEMENT
Date: 10/29/2004
Action: Closure/No Further Action Letter

Global Id: T0603748443

SHELL (Continued) **S102436957**

Action Type: ENFORCEMENT
Date: 10/26/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0603748443
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603748443
Action Type: Other
Date: 10/23/2002
Action: Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	I-09468
Status:	Case Closed
Substance:	Gasoline
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	Not reported
Global ID:	T0603703423
W Global ID:	Not reported
Staff:	UNK
Local Agency:	19000
Cross Street:	WOODRUFF
Enforcement Type:	Not reported
Date Leak Discovered:	10/17/1988
Date Leak First Reported:	6/19/1989
Date Leak Record Entered:	8/10/1989
Date Confirmation Began:	Not reported
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	6/25/1996
Date the Case was Closed:	6/25/1996
How Leak Discovered:	OM
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	SAHAKIAN, MOSES
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	1543.0562705972426152512772376
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	10/3/1988
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

SHELL (Continued) **S102436957**

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: SHELL OIL COMPANY
RP Address: 9305 FIRESTONE BLVD, DOWNEY, 90241
Program: LUST
Lat/Long: 33.9327483 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-09468

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 009640-058017
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 000748305
Permit Status: Closed

L66 **AST** **A100345407**
NNW **9136 E FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.163 mi.
860 ft. **Site 2 of 4 in cluster L**

Relative:
Higher

Actual:
114 ft.

AST:
Certified Unified Program Agencies: Los Angeles County
Owner: PENSKE TOYOTA
Total Gallons: 3701
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported

(Continued) **A100345407**

Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

L67 **PENSKE TOYOTA** **AST S113000111**
NNW **9136 E FIRESTONE BLVD** **HAZNET N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.163 mi.
860 ft. **Site 3 of 4 in cluster L**

Relative:
Higher

Actual:
114 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	PT FIRESTONE, LLC
Total Gallons:	Not reported
CERSID:	10199104
Facility ID:	LACoFA0010495
Business Name:	Penske Toyota Scion of Downey
Phone:	(562) 904-5600
Fax:	Not reported
Mailing Address:	2010 E GARVEY AVE SOUTH
Mailing Address City:	WEST COVINA
Mailing Address State:	CA
Mailing Address Zip Code:	91791
Operator Name:	KATHY BROWN
Operator Phone:	(562) 904-5600
Owner Phone:	(562) 904-5600
Owner Mail Address:	2010 E GARVEY AVE SOUTH
Owner State:	CA
Owner Zip Code:	91791
Owner Country:	United States
Property Owner Name:	PT ENTERPRISES
Property Owner Phone:	(562) 904/5600
Property Owner Mailing Address:	9136 FIRESTONE BLVD
Property Owner City:	DOWNEY
Property Owner Stat :	CA
Property Owner Zip Code:	90241
Property Owner Country:	United States
EPAID:	CAD019100121

HAZNET:

envid:	S113000111
Year:	2015
GEPAID:	CAD028100121
Contact:	KATHY BROWN
Telephone:	5629045600
Mailing Name:	Not reported
Mailing Address:	2010 E GARVEY AVENUE, SOUTH
Mailing City,St,Zip:	WEST COVINA, CA 917910000
Gen County:	Los Angeles

PENSKE TOYOTA (Continued) **S113000111**

TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.1251
Cat Decode: Aqueous solution with total organic residues 10 percent or more
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: S113000111
Year: 2015
GEPAID: CAD028100121
Contact: KATHY BROWN
Telephone: 5629045600
Mailing Name: Not reported
Mailing Address: 2010 E GARVEY AVENUE, SOUTH
Mailing City,St,Zip: WEST COVINA, CA 917910000
Gen County: Los Angeles
TSD EPA ID: CAD097030993
TSD County: Los Angeles
Waste Category: Other inorganic solid waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.125
Cat Decode: Other inorganic solid waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113000111
Year: 2015
GEPAID: CAD028100121
Contact: KATHY BROWN
Telephone: 5629045600
Mailing Name: Not reported
Mailing Address: 2010 E GARVEY AVENUE, SOUTH
Mailing City,St,Zip: WEST COVINA, CA 917910000
Gen County: Los Angeles
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.1815
Cat Decode: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Los Angeles

envid: S113000111
Year: 2014
GEPAID: CAD028100121
Contact: KATHY BROWN
Telephone: 5629045600
Mailing Name: Not reported
Mailing Address: 9136 E FIRESTONE BLVD
Mailing City,St,Zip: DOWNEY, CA 902410000

PENSKE TOYOTA (Continued) **S113000111**

Gen County:	Los Angeles
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.102
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113000111
Year:	2014
GEPAID:	CAD028100121
Contact:	KATHY BROWN
Telephone:	5629045600
Mailing Name:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.25
Cat Decode:	Not reported
Method Decode:	Not reported
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.

L68 **PENSKE TOYOTA** **RCRA-SQG** **1000314682**
NNW **9136 E. FIRESTONE BLVD.** **SWEEPS UST** **CAD028100121**
1/8-1/4 **DOWNEY, CA 90241** **HIST UST**
0.163 mi. **CA FID UST**
860 ft. **Site 4 of 4 in cluster L** **FINDS**
EMI
Relative: **ENF**
Higher **LOS ANGELES CO. HMS**
ECHO

Actual:
114 ft.

RCRA-SQG:

Date form received by agency:	03/04/1999
Facility name:	PENSKE TOYOTA
Site name:	PENSKA TOYOTA
Facility address:	9136 E. FIRESTONE BLVD. DOWNEY, CA 90241
EPA ID:	CAD028100121
Contact:	KENNETH RANKIN
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(626) 580-6000
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

PENSKE TOYOTA (Continued) **1000314682**

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:	P T AUTOMOTIVE INC
Owner/operator address:	3534 N PECK RD
	EL MONTE, CA 91731
Owner/operator country:	Not reported
Owner/operator telephone:	(818) 580-6000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	12/04/1995
Site name:	PENSKE TOYOTA
Classification:	Small Quantity Generator

Violation Status: No violations found

SWEEPS UST:

Status:	Active
Comp Number:	11032
Number:	9
Board Of Equalization:	44-009118
Referral Date:	06-30-89

PENSKE TOYOTA (Continued) **1000314682**

Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011032-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

HIST UST:

File Number:	000277B4
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000277B4.pdf
Region:	STATE
Facility ID:	00000034117
Facility Type:	Other
Other Type:	AUTO DEALERSHIP
Contact Name:	THOMAS MCSEVCENEY
Telephone:	2139231231
Owner Name:	DOWNEY SPORTS CARS, INC.
Owner Address:	9136 E. FIRESTONE BLVD.
Owner City,St,Zip:	DOWNEY, CA 90241
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000250
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000300
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00001940
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

CA FID UST:

PENSKE TOYOTA (Continued) **1000314682**

Facility ID:	19028911
Regulated By:	UTNKA
Regulated ID:	00034117
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8180000000
Mail To:	Not reported
Mailing Address:	9136 E FIRESTONE BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	DOWNEY
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

FINDS:

Registry ID: 110009529590

Environmental Interest/Information System

AIR EMISSIONS CLASSIFICATION UNKNOWN

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

UORS (California - Used Oil Recycling System). California Integrated Waste Management Board (CIWMB) helps communities establish and promote convenient collection opportunities for used oil and used oil filters.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	59247
Air District Name:	SC
SIC Code:	5511
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:	3
Reactive Organic Gases Tons/Yr:	2

PENSKE TOYOTA (Continued) **1000314682**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

PENSKE TOYOTA (Continued) **1000314682**

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511

PENSKE TOYOTA (Continued) **1000314682**

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:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	92707
Air District Name:	SC
SIC Code:	5511
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:	3.63044
Reactive Organic Gases Tons/Yr:	2.21
Carbon Monoxide Emissions Tons/Yr:	0.0081
NOX - Oxides of Nitrogen Tons/Yr:	0.0301
SOX - Oxides of Sulphur Tons/Yr:	0.000192
Particulate Matter Tons/Yr:	0.05174
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.04

ENF:

Region:	4
Facility Id:	250198
Agency Name:	Penske Toyota
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.934048
Place Longitude:	-118.121062
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported

PENSKE TOYOTA (Continued) **1000314682**

Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	AGT
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	4CUPA000187
Reg Measure Id:	167023
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	236434
Region:	4
Order / Resolution Number:	Notice of Noncompliance
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	01/26/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	05/01/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Notice of Noncompliance sent 1/26/01 for overdue fee. - 4CUPA000187
Description:	Notice of Noncompliance sent 1/26/01 for overdue fee.
Program:	AGT
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0

PENSKE TOYOTA (Continued) **1000314682**

Total $ Paid/Completed Amount: 0

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 011040-011032
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 00002448T
Permit Status: Removed

Region: LA
Permit Category: T
Facility Id: 011040-011032
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 0000T2448
Permit Status: Removed

Region: LA
Permit Category: Not reported
Facility Id: 011040-030574
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

ECHO:
Envid: 1000314682
Registry ID: 110009529590
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110009529590

M69 **CALPIPE INDUSTRIES INC** **HIST UST** **S113157677**
SSE **12021 WOODRUFF AVE** **HAZNET** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.168 mi.
885 ft. **Site 2 of 3 in cluster M**

Relative:
Lower

Actual:
104 ft.

HIST UST:
File Number: 0002737C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002737C.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported

CALPIPE INDUSTRIES INC (Continued) **S113157677**

Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	7.05
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.4587
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113157677
Year:	2014
GEPAID:	CAL000348524
Contact:	MICHAEL PERSION
Telephone:	5628034388
Mailing Name:	Not reported
Mailing Address:	12021 WOODRUFF AVE
Mailing City,St,Zip:	DOWNEY, CA 902410000
Gen County:	Los Angeles

CALPIPE INDUSTRIES INC (Continued) **S113157677**

TSD EPA ID: AZR000501510
TSD County: 99
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.68805
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113157677
Year: 2014
GEPAID: CAL000348524
Contact: MICHAEL PERSION
Telephone: 5628034388
Mailing Name: Not reported
Mailing Address: 12021 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Los Angeles
TSD EPA ID: ARD981057870
TSD County: 99
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.26
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113157677
Year: 2014
GEPAID: CAL000348524
Contact: MICHAEL PERSION
Telephone: 5628034388
Mailing Name: Not reported
Mailing Address: 12021 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Los Angeles
TSD EPA ID: ARD981057870
TSD County: 99
Waste Category: Unspecified organic liquid mixture
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.374
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
21 additional CA_HAZNET: record(s) in the EDR Site Report.

M70 **KIRKHILL INC** **RCRA-SQG** **1000270393**
SSE **12021 WOODRUFF AVE** **LUST** **CAD008255648**
1/8-1/4 **DOWNEY, CA 90241** **FINDS**
0.168 mi. **HIST CORTESE**
885 ft. **Site 3 of 3 in cluster M** **ECHO**

Relative:
Lower

Actual:
104 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	KIRKHILL INC
Facility address:	12021 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD008255648
Mailing address:	WOODRUFF AVE DOWNEY, CA 90241
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	KIRKHILL INC
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:	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

KIRKHILL INC (Continued) **1000270393**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST:
Region: STATE
Global Id: T0603704020
Latitude: 33.9256804
Longitude: -118.1167513
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 08/06/1992
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: I-12987
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603704020
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704020
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603704020
Status: Completed - Case Closed
Status Date: 08/06/1992

Global Id: T0603704020
Status: Open - Case Begin Date
Status Date: 03/12/1990

KIRKHILL INC (Continued) **1000270393**

Global Id: T0603704020
Status: Open - Remediation
Status Date: 06/05/1990

Regulatory Activities:
Global Id: T0603704020
Action Type: Other
Date: 03/12/1990
Action: Leak Discovery

Global Id: T0603704020
Action Type: Other
Date: 03/12/1990
Action: Leak Stopped

Global Id: T0603704020
Action Type: Other
Date: 03/15/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-12987
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704020
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: IMPERIAL HWY.
Enforcement Type: Not reported
Date Leak Discovered: 3/12/1990
Date Leak First Reported: 3/15/1990
Date Leak Record Entered: 4/8/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 3/12/1990
Date Case Last Changed on Database: 8/11/1992
Date the Case was Closed: 8/6/1992
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: BALLANGER, RAYMOND
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 534.71319376592650446050508082
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported

KIRKHILL INC (Continued) **1000270393**

Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	6/5/1990
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:	KIRKHILL INC.
RP Address:	12021 WOODRUFF AVE., DOWNEY, 90241
Program:	LUST
Lat/Long:	33.9256804 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

FINDS:

Registry ID: 110002631000

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Registry ID: 110055849872

Environmental Interest/Information System
STATE MASTER

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-12987

ECHO:

Envid:	1000270393
Registry ID:	110002631000
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002631000

N71
SE
1/8-1/4
0.176 mi.
930 ft.

DARNELL CORP
12000 WOODRUFF AVE
DOWNEY, CA 90241

Site 1 of 2 in cluster N

SWEEPS UST **1000312748**
RCRA NonGen / NLR **CAD981971831**
FINDS
LOS ANGELES CO. HMS
ECHO

Relative:
Lower

Actual:
105 ft.

SWEEPS UST:

Status:	Active
Comp Number:	964
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

RCRA NonGen / NLR:

Date form received by agency:	05/15/1987
Facility name:	DARNELL CORP
Facility address:	12000 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD981971831
Mailing address:	WOODRUFF AVE DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	12000 WOODRUFF AVE DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 923-9373
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:	EVANS INDUSTRIES
Owner/operator address:	200 RENAISSANCE CTR STE 3150 DETROIT, MI 48243
Owner/operator country:	Not reported
Owner/operator telephone:	(313) 259-2166
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

DARNELL CORP (Continued) **1000312748**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002760432

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 000919-000964
Facility Type: Not reported
Facility Status: Removed
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

Region: LA
Permit Category: I
Facility Id: 000919-I00964
Facility Type: 00
Facility Status: Closed
Area: 1F
Permit Number: 000000287
Permit Status: Closed

DARNELL CORP (Continued) **1000312748**

ECHO:
Envid: 1000312748
Registry ID: 110002760432
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002760432

N72 **FUJI PHOTO FILM U S A INC** **RCRA NonGen / NLR** **1006805597**
SE **12010 WOODRUFF AVE STE A** **FINDS** **CAR000129742**
1/8-1/4 **DOWNEY, CA 90241** **HAZNET**
0.176 mi. **ECHO**
930 ft. **Site 2 of 2 in cluster N**

Relative:
Lower

Actual:
105 ft.

RCRA NonGen / NLR:
Date form received by agency: 11/04/2002
Facility name: FUJI PHOTO FILM U S A INC
Facility address: 12010 WOODRUFF AVE STE A
DOWNEY, CA 90241
EPA ID: CAR000129742
Mailing address: 200 SUMMIT LAKE DRIVE
VALHALLA, NY 10595 1356
Contact: JOANNE M KIRWIN
Contact address: 200 SUMMIT LAKE DRIVE
VALHALLA, NY 10595 1356
Contact country: US
Contact telephone: 914-789-8100
Telephone ext.: 8497
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: B E F
Owner/operator address: NOT REQUIRED
NOT REQUIRED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: (999) 999-9999
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: 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

FUJI PHOTO FILM U S A INC (Continued) **1006805597**

Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110013357526

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1006805597
Year:	2003
GEPAID:	CAR000129742
Contact:	JOSEPHINE CARPENITO
Telephone:	9147898359
Mailing Name:	Not reported
Mailing Address:	200 SUMMIT LAKE DR
Mailing City,St,Zip:	VALHALLA, NY 105950000
Gen County:	Not reported
TSD EPA ID:	CAD981402522
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	0.7
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1006805597
Year:	2003
GEPAID:	CAR000129742
Contact:	JOSEPHINE CARPENITO
Telephone:	9147898359
Mailing Name:	Not reported
Mailing Address:	200 SUMMIT LAKE DR
Mailing City,St,Zip:	VALHALLA, NY 105950000
Gen County:	Not reported
TSD EPA ID:	CAD981402522
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Recycler
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported

FUJI PHOTO FILM U S A INC (Continued) **1006805597**

Facility County: Los Angeles

ECHO:
Envid: 1006805597
Registry ID: 110013357526
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110013357526

---

73 **REGENT MFG CO., INC.** **HIST UST** **U001562928**
ESE **11905 REGENTVIEW** **EMI** **N/A**
1/8-1/4 **DOWNEY, CA 90241** **WDS**
0.184 mi.
969 ft.

Relative:
Lower

Actual:
107 ft.

HIST UST:
File Number: 00027F16
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027F16.pdf
Region: STATE
Facility ID: 00000006431
Facility Type: Other
Other Type: Not reported
Contact Name: J.A. JARVIS
Telephone: 2138621174
Owner Name: REGENT JACK MFG CO INC
Owner Address: 11905 REGENT VIEW AVE
Owner City,St,Zip: DOWNEY, CA 90241
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: 10

Click here for Geo Tracker PDF:

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 15241
Air District Name: SC
SIC Code: 3441
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 and Smllr Tons/Yr: 0

Year: 1990

REGENT MFG CO., INC. (Continued) **U001562928**

County Code:	19
Air Basin:	SC
Facility ID:	15241
Air District Name:	SC
SIC Code:	3441
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	9
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	15241
Air District Name:	SC
SIC Code:	3441
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	15241
Air District Name:	SC
SIC Code:	3441
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

WDS:

Facility ID:	4 19I001267
Facility Type:	Not reported
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

REGENT MFG CO., INC. (Continued) **U001562928**

Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	AVIATION METHODS INC.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
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 thosewho 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.

O74 **CAR WASH USA** **SWEEPS UST** **S106924012**
East **9514 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.210 mi.
1107 ft. **Site 1 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

SWEEPS UST:

Status:	Active
Comp Number:	14512
Number:	9
Board Of Equalization:	44-010432
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014512-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	6

CAR WASH USA (Continued) **S106924012**

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014512-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014512-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014512-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14512
Number: 9
Board Of Equalization: 44-010432
Referral Date: 06-30-89
Action Date: Not reported

CAR WASH USA (Continued) **S106924012**

Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014512-000005
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	14512
Number:	9
Board Of Equalization:	44-010432
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014512-000006
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

P75 **CLASSIC GRAPHIX** **RCRA-SQG** **1001111740**
South **9459 WASHBURN RD** **FINDS** **CAR000012781**
1/8-1/4 **DOWNEY, CA 90242** **HAZNET**
0.214 mi. **LOS ANGELES CO. HMS**
1130 ft. **Site 1 of 3 in cluster P** **ECHO**

Relative:
Lower

Actual:
102 ft.

RCRA-SQG:

Date form received by agency:	06/03/1996
Facility name:	CLASSIC GRAPHIX
Facility address:	9459 WASHBURN RD DOWNEY, CA 90242
EPA ID:	CAR000012781
Mailing address:	WASHBURN RD DOWNEY, CA 90242
Contact:	JUDY BATHURST
Contact address:	9459 WASHBURN RD DOWNEY, CA 90242
Contact country:	US
Contact telephone:	(310) 869-1968
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:

CLASSIC GRAPHIX (Continued) **1001111740**

Owner/operator name: JUDY BATHURST
Owner/operator address: 9459 WASHBURN RD
DOWNEY, CA 90242
Owner/operator country: Not reported
Owner/operator telephone: (310) 869-1968
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: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002912340

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1001111740
Year: 2006
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Tons: 0.22

CLASSIC GRAPHIX (Continued) **1001111740**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001111740
Year: 2006
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Tons: 0.22
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001111740
Year: 2006
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAD981402522
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: 0.06
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1001111740
Year: 2004
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAD981402522
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: 0.06
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

CLASSIC GRAPHIX (Continued) **1001111740**

envid: 1001111740
Year: 2004
GEPAID: CAR000012781
Contact: SCOTT BATHURST
Telephone: 5628691968
Mailing Name: Not reported
Mailing Address: 9459 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902422912
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Tons: 0.22
Cat Decode: Not reported
Method Decode: Not reported
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.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 026102-035592
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

ECHO:
Envid: 1001111740
Registry ID: 110002912340
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002912340

O76 **LOPEZ TRANSMISSION** **RCRA-SQG** **1001959851**
East **9524 E FIRESTONE BLVD STE A** **FINDS** **CAR000065375**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.215 mi.
1135 ft. **Site 2 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

RCRA-SQG:
Date form received by agency: 01/31/2000
Facility name: LOPEZ TRANSMISSION
Facility address: 9524 E FIRESTONE BLVD STE A
DOWNEY, CA 90241
EPA ID: CAR000065375
Contact: RAMIREZ SILVIO LOPEZ
Contact address: 9524 E FIRESTONE BLVD STE A
DOWNEY, CA 90241
Contact country: US
Contact telephone: (562) 622-3363
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

LOPEZ TRANSMISSION (Continued) **1001959851**

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:	LOPEZ TRANSMISSION
Owner/operator address:	9524 E FIRESTONE BLVD STE A DOWNEY, CA 90241
Owner/operator country:	Not reported
Owner/operator telephone:	(562) 622-3363
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:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D001
. Waste name:	IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110002932444

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1001959851
Registry ID:	110002932444
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002932444

P77
South
1/8-1/4
0.226 mi.
1193 ft.

RITE ENGINEERING AND MFG CORP
9441 WASHBURN RD
DOWNEY, CA 90242

Site 2 of 3 in cluster P

RCRA NonGen / NLR
FINDS
EMI
HAZNET
ECHO

1000818442
CAD983643149

Relative:
Lower

Actual:
102 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/27/2009
Facility name:	RITE ENGINEERING AND MFG CORP
Facility address:	9441 WASHBURN RD DOWNEY, CA 90242
EPA ID:	CAD983643149
Contact:	JACK COE
Contact address:	9441 WASHBURN RD DOWNEY, CA 90242
Contact country:	US
Contact telephone:	562-862-2135
Contact email:	JACKC@RITEBOILER.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	JOHN E KASUNICH
Owner/operator address:	2112 CHELSEA RD PALOS VERDES, CA 90274
Owner/operator country:	Not reported
Owner/operator telephone:	(310) 375-9210
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:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	07/14/1992
Site name:	RITE ENGINEERING AND MFG CORP
Classification:	Small Quantity Generator

Violation Status: No violations found

FINDS:

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

Registry ID: 110057126104

Environmental Interest/Information System
STATE MASTER

Registry ID: 110002420915

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
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
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
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 and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3433
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	12861
Air District Name:	SC
SIC Code:	3443
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:	.2423719049523991601
Reactive Organic Gases Tons/Yr:	.23835739175
Carbon Monoxide Emissions Tons/Yr:	.01

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

NOX - Oxides of Nitrogen Tons/Yr: .01
SOX - Oxides of Sulphur Tons/Yr: .0000880791
Particulate Matter Tons/Yr: .0011156686
Part. Matter 10 Micrometers and Smllr Tons/Yr:.0011156686

HAZNET:

envid: 1000818442
Year: 2010
GEPAID: CAD983643149
Contact: MARGARET C LIGHT - VP
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 5832 GARFIELD AVE
Mailing City,St,Zip: COMMERCE, CA 900403605
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.2085
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000818442
Year: 2009
GEPAID: CAD983643149
Contact: MARGARET C LIGHT - VP
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 9441 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902420000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.19
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000818442
Year: 2007
GEPAID: CAD983643149
Contact: MARGARET C LIGHT - VP
Telephone: 5628622135
Mailing Name: Not reported
Mailing Address: 9441 WASHBURN RD
Mailing City,St,Zip: DOWNEY, CA 902420000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

RITE ENGINEERING AND MFG CORP (Continued) **1000818442**

	Organics Recovery Ect
Tons:	0.41
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000818442
Year:	1998
GEPAID:	CAD983643149
Contact:	COE FAMILY TRUST
Telephone:	5628622135
Mailing Name:	Not reported
Mailing Address:	9441 WASHBURN RD
Mailing City,St,Zip:	DOWNEY, CA 902420000
Gen County:	Not reported
TSD EPA ID:	CAD044429835
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Disposal, Other
Tons:	.1000
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000818442
Year:	1998
GEPAID:	CAD983643149
Contact:	COE FAMILY TRUST
Telephone:	5628622135
Mailing Name:	Not reported
Mailing Address:	9441 WASHBURN RD
Mailing City,St,Zip:	DOWNEY, CA 902420000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	.2293
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

ECHO:

Envid:	1000818442
Registry ID:	110002420915
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002420915

Q78
SSW
1/8-1/4
0.226 mi.
1193 ft.

DOWNEY
9407 WASHBURN RD
DOWNEY, CA 90242

Site 1 of 3 in cluster Q

SWEEPS UST **U001562953**
HIST UST **N/A**

Relative:
Lower

Actual:
102 ft.

SWEEPS UST:

Status:	Active
Comp Number:	12689
Number:	9
Board Of Equalization:	44-007401
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012689-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

HIST UST:

File Number:	000286C7
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000286C7.pdf
Region:	STATE
Facility ID:	00000007497
Facility Type:	Other
Other Type:	PUBLIC UTILITY
Contact Name:	G. J. STOVER
Telephone:	2138037444
Owner Name:	SOUTHERN CALIF. GAS COMPANY
Owner Address:	BOX 3249 TERMINAL ANNEX
Owner City,St,Zip:	LOS ANGELES, CA 90051
Total Tanks:	0003
Tank Num:	001
Container Num:	DSEU100
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	1
Container Construction Thickness:	.25
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	DSEU101
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	0
Container Construction Thickness:	6
Leak Detection:	None
Tank Num:	003
Container Num:	DSEU102
Year Installed:	Not reported

DOWNEY (Continued) **U001562953**

Tank Capacity: 00000250
Tank Used for: WASTE
Type of Fuel: 5
Container Construction Thickness: 12.
Leak Detection: None

Click here for Geo Tracker PDF:

Q79 **SOUTHERN CALIFORNIA GAS CO** **UST** **U003777038**
SSW **9407 WASHBURN RD** **N/A**
1/8-1/4 **DOWNEY, CA 90242**
0.226 mi.
1193 ft. **Site 2 of 3 in cluster Q**

Relative:
Lower

Actual:
102 ft.

UST:
Facility ID: 12689
Permitting Agency: LOS ANGELES COUNTY
Latitude: 33.926515
Longitude: -118.119183

Q80 **SO CALIF GAS CO/DOWNEY BASE** **RCRA-SQG** **1000167595**
SSW **9407 WASHBURN RD** **FINDS** **CAD981422876**
1/8-1/4 **DOWNEY, CA 90242** **ECHO**
0.226 mi.
1193 ft. **Site 3 of 3 in cluster Q**

Relative:
Lower

Actual:
102 ft.

RCRA-SQG:
Date form received by agency: 06/23/1986
Facility name: SO CALIF GAS CO/DOWNEY BASE
Facility address: 9407 WASHBURN RD
DOWNEY, CA 90242
EPA ID: CAD981422876
Mailing address: P O BOX 3249 TERMINAL ANNEX
LOS ANGELES, CA 90051
Contact: ENVIRONMENTAL MANAGER
Contact address: 9407 WASHBURN RD
DOWNEY, CA 90242
Contact country: US
Contact telephone: (213) 689-3075
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: SO CALIFORNIA
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

SO CALIF GAS CO/DOWNEY BASE (Continued) **1000167595**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002700747

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1000167595
Registry ID: 110002700747
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002700747

O81 **AST** **A100345432**
East **9534 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA**
0.228 mi.
1206 ft. **Site 3 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

AST:

Certified Unified Program Agencies:	Los Angeles County
Owner:	DOWNEY HAND CAR WASH & QUICK LUBE
Total Gallons:	3701
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

O82 **CAR WASH USA- MINI MARKET** **UST** **U003777429**
East **9534 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.228 mi.
1206 ft. **Site 4 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

UST:

Facility ID:	21743
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	33.9309268
Longitude:	-118.1120912

O83 **DOWNEY CAR CARE CENTER & CASTROL PREMIUM LUBE EXPRESS** **AST** **A100419519**
East **9536 FIRESTONE BLVD** **N/A**
1/8-1/4 **DOWNEY, CA 90241**
0.233 mi.
1230 ft. **Site 5 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	Vahid Ladjevardi
Total Gallons:	Not reported
CERSID:	10617472

DOWNEY CAR CARE CENTER & CASTROL PREMIUM LUBE EXPRESS (Continued) **A100419519**

Facility ID:	Not reported
Business Name:	Downey Car Care Center & Castrol Premium Lube Express
Phone:	(562) 622-4688
Fax:	Not reported
Mailing Address:	9534 Firestone Blvd
Mailing Address City:	Downey
Mailing Address State:	CA
Mailing Address Zip Code:	90241
Operator Name:	Vahid Ladjevardi
Operator Phone:	(562) 622-3333
Owner Phone:	(562) 622-3333
Owner Mail Address:	9534 Firestone Blvd
Owner State:	CA
Owner Zip Code:	90241
Owner Country:	United States
Property Owner Name:	Ladjevardi Family Partnership
Property Owner Phone:	(562) 622-3333
Property Owner Mailing Address:	9534 Firestone Blvd
Property Owner City:	Downey
Property Owner Stat :	CA
Property Owner Zip Code:	90241
Property Owner Country:	United States
EPAID:	CAL000263175

O84 **60 MINUTE TUNE DOWNEY** **RCRA-SQG** **1000300344**
East **9536B FIRESTONE BLVD** **CAD982507428**
1/8-1/4 **DOWNEY, CA 90241**
0.233 mi.
1230 ft. **Site 6 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	60 MINUTE TUNE DOWNEY
Facility address:	9536B FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAD982507428
Mailing address:	FIRESTONE BLVD DOWNEY, CA 90241
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	JOE LEVOFF
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

60 MINUTE TUNE DOWNEY (Continued) **1000300344**

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: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

O85 **60 MINUTE TUNE DOWNEY** **RCRA-SQG** **1000112565**
East **9536B FIRESTONE BLVD** **FINDS** **CAD982475741**
1/8-1/4 **DOWNEY, CA 90241** **ECHO**
0.233 mi.
1230 ft. **Site 7 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: RAY ENGINEERING
Facility address: 9536 FIRESTONE
DOWNEY, CA 90241
EPA ID: CAD982475741
Mailing address: 9536 FIRESTONE BLVD
DOWNEY, CA 90241
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
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

60 MINUTE TUNE DOWNEY (Continued) **1000112565**

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:	RAY ZELLER
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:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	06/28/1988
Site name:	RAY ENGINEERING
Classification:	Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002836502

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource

60 MINUTE TUNE DOWNEY (Continued) **1000112565**

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.

Registry ID: 110002822722

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000112565
Registry ID:	110002836502
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002836502

Envid:	1000112565
Registry ID:	110002822722
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002822722

O86 **RAY ENGINEERING** **SWEEPS UST** **U001562965**
East **9536 FIRESTONE BL** **HIST UST** **N/A**
1/8-1/4 **DOWNEY, CA 90242**
0.233 mi.
1230 ft. **Site 8 of 8 in cluster O**

Relative:
Higher

Actual:
111 ft.

SWEEPS UST:

Status:	Active
Comp Number:	14115
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

HIST UST:

File Number:	0002896D
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002896D.pdf
Region:	STATE
Facility ID:	00000052888
Facility Type:	Other
Other Type:	AUTO PARTS STORE

RAY ENGINEERING (Continued) **U001562965**

Contact Name:	RAY ZELLER
Telephone:	2138619705
Owner Name:	ZELLER CORP.
Owner Address:	9536 FIRESTONE BL.
Owner City,St,Zip:	DOWNEY, CA 90242
Total Tanks:	0001
Tank Num:	001
Container Num:	001
Year Installed:	1979
Tank Capacity:	00004500
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Visual

Click here for Geo Tracker PDF:

P87 **STUD WELDING PRODUCTS INC** **RCRA-SQG** **1000594670**
South **9455 WASHBURN ROAD** **FINDS** **CAD983585290**
1/8-1/4 **DOWNEY, CA 90242** **HAZNET**
0.233 mi. **LOS ANGELES CO. HMS**
1230 ft. **Site 3 of 3 in cluster P** **ECHO**

Relative:
Lower

Actual:
102 ft.

RCRA-SQG:

Date form received by agency:	05/18/1991
Facility name:	STUD WELDING PRODUCTS INC
Facility address:	9455 WASHBURN ROAD DOWNEY, CA 90242
EPA ID:	CAD983585290
Contact:	PHIL BUTCHER
Contact address:	9455 WASHBURN ROAD DOWNEY, CA 90242
Contact country:	US
Contact telephone:	(213) 327-3668
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:	JOSEPH B QUALL
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

STUD WELDING PRODUCTS INC (Continued) **1000594670**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002846378

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZNET:
envid: 1000594670
Year: 2015
GEPAID: CAD983585290
Contact: LINDA MYERS,
Telephone: 4256569787
Mailing Name: Not reported
Mailing Address: PO BOX 68887
Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles

STUD WELDING PRODUCTS INC (Continued) **1000594670**

TSD EPA ID: CAT000613976
TSD County: Orange
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.197
Cat Decode: Aqueous solution with total organic residues less than 10 percent
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000594670
Year: 2015
GEPAID: CAD983585290
Contact: LINDA MYERS,
Telephone: 4256569787
Mailing Name: Not reported
Mailing Address: PO BOX 68887
Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles
TSD EPA ID: CAD099452708
TSD County: Los Angeles
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.634
Cat Decode: Waste oil and mixed oil
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: 1000594670
Year: 2014
GEPAID: CAD983585290
Contact: LINDA MYERS, BOOKKEEPER
Telephone: 4256569787
Mailing Name: Not reported
Mailing Address: PO BOX 68887
Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles
TSD EPA ID: CAD099452708
TSD County: Los Angeles
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.95
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000594670
Year: 2014
GEPAID: CAD983585290
Contact: LINDA MYERS, BOOKKEEPER
Telephone: 4256569787
Mailing Name: Not reported
Mailing Address: PO BOX 68887

STUD WELDING PRODUCTS INC (Continued) **1000594670**

Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles
TSD EPA ID: CAT000613976
TSD County: Orange
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.134
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000594670
Year: 2014
GEPAID: CAD983585290
Contact: LINDA MYERS, BOOKKEEPER
Telephone: 4256569787
Mailing Name: Not reported
Mailing Address: PO BOX 68887
Mailing City,St,Zip: SEATTLE, WA 981680887
Gen County: Los Angeles
TSD EPA ID: AZR000501510
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.25
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
71 additional CA_HAZNET: record(s) in the EDR Site Report.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 026101-035590
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

ECHO:
Envid: 1000594670
Registry ID: 110002846378
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002846378

R88
NNW
1/8-1/4
0.248 mi.
1308 ft.

WALGREENS #10112
9018 FIRESTONE BLVD
DOWNEY, CA 90241

Site 1 of 2 in cluster R

RCRA-CESQG **1016954561**
CAL000345647

Relative:
Higher

Actual:
114 ft.

RCRA-CESQG:

Date form received by agency:	06/09/2014
Facility name:	WALGREENS #10112
Facility address:	9018 FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAL000345647
Mailing address:	GREY HAWK CT, STE 200 CARLSBAD, CA 92010
Contact:	KARINA E ROMERO
Contact address:	N LAKE AVE PASADENA, CA 91101
Contact country:	Not reported
Contact telephone:	(760) 602-8887
Contact email:	KROMERO@3ECOMPANY.COM
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 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; 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 at any time: 1 kg or less of acutely hazardous waste; or 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

Owner/Operator Summary:

Owner/operator name:	WALGREEN CO
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	04/28/2009
Owner/Op end date:	Not reported

Owner/operator name:	PNS STORES INC
Owner/operator address:	PHILLIPI RD COLUMBUS, OH 43228
Owner/operator country:	Not reported
Owner/operator telephone:	(847) 914-2264
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	04/28/2009
Owner/Op end date:	Not reported

WALGREENS #10112 (Continued) **1016954561**

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

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U165
. Waste name: NAPHTHALENE

Violation Status: No violations found

R89
NNW
1/8-1/4
0.248 mi.
1308 ft.

WALGREEN NO 10112
9018 FIRESTONE BLVD
DOWNEY, CA 90241

Site 2 of 2 in cluster R

RCRA-LQG
FINDS

1017785836
CAR000253286

Relative:
Higher

Actual:
114 ft.

RCRA-LQG:

Date form received by agency:	04/20/2015
Facility name:	WALGREEN NO 10112
Facility address:	9018 FIRESTONE BLVD DOWNEY, CA 90241
EPA ID:	CAR000253286
Contact:	ANDREW MARKS
Contact address:	104 WILMOT RD MS 1434 DEERFIELD, IL 60015
Contact country:	US
Contact telephone:	847-315-2602
Contact email:	Not reported
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	PNS STORES INC
Owner/operator address:	300 PHILIPI RD COLUMBUS, 43228
Owner/operator country:	US
Owner/operator telephone:	614-278-6800
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/11/2009
Owner/Op end date:	Not reported
Owner/operator name:	WALGREEN CO
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:	05/11/2009
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

WALGREEN NO 10112 (Continued) **1017785836**

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: 122

. Waste code: 131
. Waste name: 131

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 232
. Waste name: 232

. Waste code: 311
. Waste name: 311

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

WALGREEN NO 10112 (Continued) **1017785836**

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

Violation Status: No violations found

90
SSW
1/4-1/2
0.271 mi.
1429 ft.

GENERAL PAVING CO/JOMIT RENTAL **LUST** **S104159681**
9316 WASHBURN RD **HIST CORTESE** **N/A**
DOWNEY, CA 90241

Relative:
Lower

Actual:
101 ft.

LUST:
Region: STATE
Global Id: T0603704974
Latitude: 33.92392
Longitude: -118.122802
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/09/1992
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY

GENERAL PAVING CO/JOMIT RENTAL (Continued) **S104159681**

RB Case Number: R-10910
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603704974
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704974
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603704974
Status: Completed - Case Closed
Status Date: 09/09/1992

Global Id: T0603704974
Status: Open - Case Begin Date
Status Date: 06/20/1991

Global Id: T0603704974
Status: Open - Remediation
Status Date: 10/31/1991

Global Id: T0603704974
Status: Open - Remediation
Status Date: 03/02/1992

Global Id: T0603704974
Status: Open - Site Assessment
Status Date: 06/20/1991

Global Id: T0603704974
Status: Open - Site Assessment
Status Date: 07/23/1991

Regulatory Activities:
Global Id: T0603704974
Action Type: Other
Date: 07/03/1991

GENERAL PAVING CO/JOMIT RENTAL (Continued) **S104159681**

Action: Leak Discovery

Global Id: T0603704974
Action Type: Other
Date: 07/03/1991
Action: Leak Stopped

Global Id: T0603704974
Action Type: Other
Date: 11/18/1991
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-10910
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704974
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: DUNROBIN
Enforcement Type: Informal Enforcement Actions,including Notices of Violations and Staff Enforcement Letters
Date Leak Discovered: 7/3/1991
Date Leak First Reported: 11/18/1991
Date Leak Record Entered: 3/20/1992
Date Confirmation Began: Not reported
Date Leak Stopped: 7/3/1991
Date Case Last Changed on Database: 9/9/1992
Date the Case was Closed: 9/9/1992
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: RULLO, LEN
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2183.3811333764801859212472736
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 6/20/1991
Preliminary Site Assessment Began: 7/23/1991
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 10/31/1991
Remedial Action Underway: 3/2/1992
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: 1/1/1965
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

GENERAL PAVING CO/JOMIT RENTAL (Continued) **S104159681**

GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	JOMIT EQUIPMENT RENTALS
RP Address:	12125 WOODRUFF AVE., DOWNEY 90241
Program:	LUST
Lat/Long:	33.9241735 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-10910

91
SE
1/4-1/2
0.289 mi.
1524 ft.

VIMAR INC
9650 WASHBURN RD
DOWNEY, CA 90241

LUST **S100228291**
HIST CORTESE **N/A**
LOS ANGELES CO. HMS

Relative:
Lower

Actual:
104 ft.

LUST:

Region:	STATE
Global Id:	T0603704145
Latitude:	33.9242274
Longitude:	-118.1154063
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/14/1993
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-14214
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704145
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

VIMAR INC (Continued) **S100228291**

Global Id:	T0603704145
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704145
Status:	Completed - Case Closed
Status Date:	01/14/1993
Global Id:	T0603704145
Status:	Open - Case Begin Date
Status Date:	03/09/1990
Global Id:	T0603704145
Status:	Open - Site Assessment
Status Date:	03/09/1990

Regulatory Activities:

Global Id:	T0603704145
Action Type:	Other
Date:	03/09/1990
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-14214	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704145	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		3/9/1990
Date Leak Record Entered:	3/5/1990	
Date Confirmation Began:	3/9/1990	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		5/25/1993
Date the Case was Closed:		1/14/1993
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	

VIMAR INC (Continued) **S100228291**

Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		178.184232210543404560598 1502
Source of Cleanup Funding:		F
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	VIMAR, INC.	
RP Address:	9650 WASHBURN ROAD, DOWNEY, 90241	
Program:	LUST	
Lat/Long:	33.9242274 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-14214

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	026104-035593
Facility Type:	Not reported
Facility Status:	OPEN
Area:	1F
Permit Number:	Not reported
Permit Status:	Not reported

S92 **CRESCENT TRUCK LINES** **LUST** **S104537978**
ESE **11937 REGENTVIEW AVE** **LOS ANGELES CO. HMS** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.289 mi.
1526 ft. **Site 1 of 3 in cluster S**

Relative:
Lower

Actual:
106 ft.

LUST:

Region:	STATE
Global Id:	T0603714767
Latitude:	33.926481
Longitude:	-118.113488
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/09/2005
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	PGT
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	012713-040293
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603714767
Contact Type:	Local Agency Caseworker
Contact Name:	PHILLIP GHARIBIANS-TABRIZI
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	pgharibians@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603714767
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603714767
Status:	Completed - Case Closed
Status Date:	05/09/2005

Global Id:	T0603714767
Status:	Open - Case Begin Date
Status Date:	08/27/2003

Global Id:	T0603714767
Status:	Open - Site Assessment
Status Date:	05/09/2005

CRESCENT TRUCK LINES (Continued) **S104537978**

Regulatory Activities:

Global Id:	T0603714767
Action Type:	Other
Date:	08/27/2003
Action:	Leak Discovery
Global Id:	T0603714767
Action Type:	ENFORCEMENT
Date:	04/17/2012
Action:	Closure/No Further Action Letter
Global Id:	T0603714767
Action Type:	Other
Date:	05/09/2005
Action:	Leak Reported
Global Id:	T0603714767
Action Type:	REMEDIATION
Date:	09/22/2003
Action:	Excavation

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	012713-012904
Facility Type:	0
Facility Status:	Closed
Area:	1F
Permit Number:	00004676T
Permit Status:	Closed
Region:	LA
Permit Category:	T
Facility Id:	012713-040293
Facility Type:	0
Facility Status:	Permit
Area:	1F
Permit Number:	000387132
Permit Status:	Permit
Region:	LA
Permit Category:	Not reported
Facility Id:	012713-040401
Facility Type:	Not reported
Facility Status:	OPEN
Area:	1F
Permit Number:	Not reported
Permit Status:	Not reported

93
WNW
1/4-1/2
0.291 mi.
1538 ft.

MOHAWK SERVICE STTION 04074
11534 LAKEWOOD
DOWNEY, CA 90241

LUST
HIST UST
HIST CORTESE

S102438517
N/A

Relative:
Higher

Actual:
111 ft.

LUST:

Region:	STATE
Global Id:	T0603701264
Latitude:	33.931795
Longitude:	-118.126333
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/30/1989
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	902410043
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603701264
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603701264
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603701264
Status:	Completed - Case Closed
Status Date:	03/30/1989

Global Id:	T0603701264
Status:	Open - Case Begin Date
Status Date:	02/11/1985

Global Id:	T0603701264
Status:	Open - Site Assessment
Status Date:	03/23/1988

MOHAWK SERVICE STTION 04074 (Continued) **S102438517**

Regulatory Activities:

Global Id:	T0603701264
Action Type:	Other
Date:	02/11/1985
Action:	Leak Discovery
Global Id:	T0603701264
Action Type:	Other
Date:	02/11/1985
Action:	Leak Stopped
Global Id:	T0603701264
Action Type:	Other
Date:	02/11/1985
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	902410043	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		VE
Global ID:	T0603701264	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	FIRESTONE	
Enforcement Type:	Not reported	
Date Leak Discovered:	2/11/1985	
Date Leak First Reported:		2/11/1985
Date Leak Record Entered:	8/12/1987	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	2/11/1985	
Date Case Last Changed on Database:		3/30/1989
Date the Case was Closed:		3/30/1989
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	Corrosion	
Leak Source:	Tank	
Operator:	WARK, R.J.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2218.296453883253614397785426 3
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		3/23/1988
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported

MOHAWK SERVICE STTION 04074 (Continued) **S102438517**

Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Yes
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	TEXACO USA
RP Address:	PO BOX 3756, LOS ANGELES, CA 90051
Program:	LUST
Lat/Long:	33.9323414 / -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:	INITIALLY ASSIGNED TO ANS. TEXACO WANTS CLOSURE APPROVAL.

HIST UST:

File Number:	00026B7A
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026B7A.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	902410043

S94 **LEXINGTON CHEMICALS CORP** **LUST** **S102062220**
ESE **11916 REGENTVIEW** **HIST CORTESE** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.303 mi.
1602 ft. **Site 2 of 3 in cluster S**

Relative:
Lower

Actual:
107 ft.

LUST:

Region:	STATE
Global Id:	T0603705366
Latitude:	33.9271163
Longitude:	-118.1121282
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/24/1996
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-22573
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603705366
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603705366
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603705366
Status:	Completed - Case Closed
Status Date:	01/24/1996

Global Id:	T0603705366
Status:	Open - Case Begin Date
Status Date:	01/24/1996

Regulatory Activities:

Global Id:	T0603705366
Action Type:	Other
Date:	01/24/1996
Action:	Leak Reported

LEXINGTON CHEMICALS CORP (Continued) **S102062220**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-22573

S95 **LEXINGTON CHEMICALS CORP** **LUST** **S104159685**
ESE **11916 REGENTVIEW AVE** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.303 mi.
1602 ft. **Site 3 of 3 in cluster S**

Relative:
Lower

Actual:
107 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-22573	
Status:	Case Closed	
Substance:	1	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603705366	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	WASHBURN	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		1/24/1996
Date Leak Record Entered:	5/1/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		1/24/1996
Date the Case was Closed:		1/24/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	DONYES, FRANK	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1317.359063337522780258540662 4
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	

LEXINGTON CHEMICALS CORP (Continued) **S104159685**

Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	LEXINGTON CHEMICALS CORP
RP Address:	11916 REGENTVIEW AVE, DOWNEY CA 90241-5586
Program:	LUST
Lat/Long:	33.9271163 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

96
ENE
1/4-1/2
0.309 mi.
1632 ft.

DOWNEY DUMP **WMUDS/SWAT** **S104156350**
11014 PANGHORN **N/A**
DOWNEY, CA

Relative:
Higher

Actual:
113 ft.

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Not reported
Agency Name:	Not reported
Agency Department:	Not reported
Agency Address:	Not reported
Agency City,St,Zip:	Not reported
Agency Contact:	Not reported
Agency Telephone:	Not reported
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	CA
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	4
Facility Type:	Not reported
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	False

DOWNEY DUMP (Continued) **S104156350**

Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	LT
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	4 190278NUR
Solid Waste Information ID:	Not reported

97
East
1/4-1/2
0.310 mi.
1636 ft.

US RENTALS INC **LUST** **S100876626**
9606 FIRESTONE BLVD **SWEEPS UST** **N/A**
DOWNEY, CA 90241 **HIST CORTESE**
LOS ANGELES CO. HMS

Relative:
Higher

Actual:
111 ft.

LUST:

Region:	STATE
Global Id:	T0603705064
Latitude:	33.928818
Longitude:	-118.111832
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/29/2001
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MB
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-11696
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603705064
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603705064
Contact Type:	Regional Board Caseworker
Contact Name:	MAGDY BAIADY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES

US RENTALS INC (Continued) **S100876626**

Email: mbaiady@waterboards.ca.gov
Phone Number: 2135766699

Status History:
Global Id: T0603705064
Status: Completed - Case Closed
Status Date: 01/29/2001

Global Id: T0603705064
Status: Open - Case Begin Date
Status Date: 10/01/1996

Global Id: T0603705064
Status: Open - Site Assessment
Status Date: 01/30/1997

Global Id: T0603705064
Status: Open - Site Assessment
Status Date: 06/03/1997

Global Id: T0603705064
Status: Open - Site Assessment
Status Date: 12/11/1997

Regulatory Activities:
Global Id: T0603705064
Action Type: Other
Date: 01/07/1997
Action: Leak Discovery

Global Id: T0603705064
Action Type: Other
Date: 10/01/1996
Action: Leak Stopped

Global Id: T0603705064
Action Type: Other
Date: 01/30/1997
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-11696
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: OT
Global ID: T0603705064
W Global ID: Not reported
Staff: MB
Local Agency: 19000

US RENTALS INC (Continued) **S100876626**

Cross Street:	STEWART & GARY RD	
Enforcement Type:	Not reported	
Date Leak Discovered:	1/7/1997	
Date Leak First Reported:		1/30/1997
Date Leak Record Entered:	3/31/1997	
Date Confirmation Began:	1/30/1997	
Date Leak Stopped:	10/1/1996	
Date Case Last Changed on Database:		1/12/2000
Date the Case was Closed:		1/29/2001
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	NILES, TORRE	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1661.17142897397597405902899 66
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		6/3/1997
Pollution Characterization Began:		12/11/1997
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:		6/3/1999
Hist Max MTBE Conc in Groundwater:		45.2
Hist Max MTBE Conc in Soil:		315
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	U.S. RENTALS INC.	
RP Address:	9606 E. FIRESTONE BLVD., DOWNEY CA 90241	
Program:	LUST	
Lat/Long:	33.9292953 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	9/10/99 3RD QTR GW MON RPT 1999; 1/12/00 4TH QTR GW MON RPT 1999	

SWEEPS UST:

Status:	Active
Comp Number:	11696
Number:	9
Board Of Equalization:	44-009437
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011696-000001
Tank Status:	A
Capacity:	Not reported

US RENTALS INC (Continued) **S100876626**

Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 3

Status: Active
Comp Number: 11696
Number: 9
Board Of Equalization: 44-009437
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011696-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11696
Number: 9
Board Of Equalization: 44-009437
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011696-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-11696

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 011643-011696
Facility Type: 0
Facility Status: Removed
Area: 1F
Permit Number: 00003266T
Permit Status: Removed

98
SE
1/4-1/2
0.350 mi.
1846 ft.

DOWNEY AREA RECYCLING & TRANSFER STATION
9770 WASHBURN ROAD
DOWNEY, CA 90241

SWF/LF
WMUDS/SWAT
CHMIRS
NPDES

S104159682
N/A

Relative:
Lower

Actual:
105 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-0801
Lat/Long:	33.92413 / -118.11214
Owner Name:	LA County San. Dist. & Downey Area R.& T
Owner Telephone:	5626997411
Owner Address:	Not reported
Owner Address2:	P.O. Box 4998
Owner City,St,Zip:	Whittier, CA 90607
Operational Status:	Active
Operator:	LA County San. Dist. & Downey Area R.& T
Operator Phone:	5626997411
Operator Address:	Not reported
Operator Address2:	P.O. Box 4998
Operator City,St,Zip:	Whittier, CA 90607
Permit Date:	11/23/1999
Permit Status:	Permitted
Permitted Acreage:	$6.20
Activity:	Large Volume Transfer/Proc Facility
Regulation Status:	Permitted
Landuse Name:	Residential,Industrial,Commercial
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Monthly
Accepted Waste:	Construction/demolition,Green Materials,Industrial,Mixed municipal
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	19-AA-0801
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	5000
Actual Throughput with Units:	Tons/day
Permitted Capacity with Units:	5000
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Tons/day
Lat/Long:	33.92413 / -118.11214

LOS ANGELES CO. LF:

Site ID:	181
Alt. Address:	N/A
Site Contact:	Not reported
Site Contact Phone:	(562) 622-3503
Site Email:	sono@lacsd.org
Site Website:	http://www.lacsd.org/about/solid_waste_facilities/dart.asp
Site Type:	Transfer and Processing Facility
Site SWIS Number:	19-AA-0801
Beginning Operation Date:	N/A
Ending Operation Date:	N/A
Local Enforcement Agency:	County Of Los Angeles Department of Public Health
Maximun Depth Fill(Ft):	N/A
Permitted Capacity:	5000

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

Present Use: Transfer/Processing Facility
Remaining Capacity(Million): N/A
Status: Active
Waste Accepted: Construction & Demolition;Green Materials;Household Trash;Industrial Non-Hazardous;
Hours of Operation: Monday - Friday 6 am - 5:30 pm ; Saturday 6 am - 1:30 pm
Disposal Area (Acre): N/A

Detail As Of 01/2014:
Operator Name: County of Los Angeles Sanitation Districts
Operator Address: 1955 Workman Mill Road
Operator City/State/Zip: Whittier, CA 90601
Operator Contact: Willy Mejia
Operator Telephone: (562) 699-7411x6069
Operator Email: wmejia@lacsd.org
Owner Name: County of Los Angeles Sanitation Districts
Owner Address: 1955 Workman Mill Road
Owner City/State/Zip: Whittier, CA 90601
Owner Contact: Willy Mejia
Owner Telephone: (562) 699-7411x6069
Owner Email: wmejia@lacsd.org

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Not reported
Agency Name: T.D. HAMLIN DISPOSAL
Agency Department: Not reported
Agency Address: Not reported
Agency City,St,Zip: Not reported
Agency Contact: Not reported
Agency Telephone: Not reported
Land Owner Name: Not reported
Land Owner Address: Not reported
Land Owner City,St,Zip: CA
Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 4
Facility Type: Not reported
Facility Description: Not reported
Facility Telephone: Not reported
SWAT Facility Name: Not reported
Primary SIC: Not reported
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: Not reported

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

Waste Discharge System: False
Solid Waste Assessment Test Program: True
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: T.D. HAMLIN DISPOSAL
Threat to Water Quality: Not reported
Sub Chapter 15: False
Regional Board Project Officer: LT
Number of WMUDS at Facility: 1
Section Range: Not reported
RCRA Facility: Not reported
Waste Discharge Requirements: Not reported
Self-Monitoring Rept. Frequency: Not reported
Waste Discharge System ID: 4 190208NUR
Solid Waste Information ID: Not reported

CHMIRS:
OES Incident Number: 13-5805
OES notification: 09/16/2013
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Diked of the storm drain system
Spill Site: Other
Cleanup By: Contractor
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: N/A
Other: Not reported
Date/Time: 1045

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

Year:	2013
Agency:	Downey FD
Incident Date:	9/16/2013
Admin Agency:	Downey Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Diked of the storm drain system
E Date:	Not reported
Substance:	Aerosol Cans
Quantity Released:	UNK
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	25-30
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller is reporting an unknown amount of aerosol cans that were burned up in a metal recycling fire. The release was to the air. The facility was evacuated during the fire, all have returned to work.

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	191242
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I016727
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	8/21/2001
STATUS CODE NAME:	Active
STATUS DATE:	8/21/2001
PLACE SIZE:	6

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	David Rothbart
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	562-622-3503
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Los Angeles County Sanitation Districts
OPERATOR ADDRESS:	PO Box 4998
OPERATOR CITY:	Whittier
OPERATOR STATE:	California
OPERATOR ZIP:	90607
OPERATOR CONTACT NAME:	Pat Freemon
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	562-699-7315
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Special District
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	562-699-7411
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	San Gabriel River
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	4953-Refuse Systems
SECONDARY SIC:	5093-Scrap and Waste Materials
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	191242

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I016727
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/21/2001
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Los Angeles County Sanitation Districts
Discharge Address:	PO Box 4998
Discharge City:	Whittier
Discharge State:	California
Discharge Zip:	90607
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported

DOWNEY AREA RECYCLING & TRANSFER STATION (Continued) **S104159682**

CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

99
SSE
1/4-1/2
0.350 mi.
1847 ft.

A C PETERSON COMPANY INC **LUST S103281958**
12207 WOODRUFF AVE S **HIST CORTESE N/A**
DOWNEY, CA 90242

Relative:
Lower

Actual:
102 ft.

LUST:

Region:	STATE
Global Id:	T0603704798
Latitude:	33.922741
Longitude:	-118.117178
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/11/1997
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-09291
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704798
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704798
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

A C PETERSON COMPANY INC (Continued) **S103281958**

Status History:

Global Id:	T0603704798
Status:	Completed - Case Closed
Status Date:	12/11/1997
Global Id:	T0603704798
Status:	Open - Case Begin Date
Status Date:	09/09/1997

Regulatory Activities:

Global Id:	T0603704798
Action Type:	Other
Date:	10/20/1997
Action:	Leak Discovery
Global Id:	T0603704798
Action Type:	Other
Date:	09/09/1997
Action:	Leak Stopped
Global Id:	T0603704798
Action Type:	Other
Date:	12/11/1997
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-09291	
Status:	Case Closed	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Excavate and Dispose
Global ID:	T0603704798	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	10/20/1997	
Date Leak First Reported:		12/11/1997
Date Leak Record Entered:	12/23/1997	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	9/9/1997	
Date Case Last Changed on Database:		12/23/1997
Date the Case was Closed:		12/11/1997
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	

A C PETERSON COMPANY INC (Continued) **S103281958**

Well Name: Not reported
Approx. Dist To Production Well (ft): 1014.655653661870169627611234
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: A. C. PETERSON COMPANY, INC.
RP Address: 10704 RICHEON AVE., DOWNEY, CA 90240
Program: LUST
Lat/Long: 33.9221595 / -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: ALL THE CONTAMINATED SOILS WERE EXCAVATED AND NONE DISPOSED

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-09291

T100 **SHELL STATION** **SWEEPS UST** **U001562968**
NNW **8767 FIRESTONE** **HIST UST** **N/A**
1/4-1/2 **DOWNEY, CA 90242** **HIST CORTESE**
0.365 mi.
1926 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
116 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 9470
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009470-000001
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT

SHELL STATION (Continued) **U001562968**

Content:	REG UNLEADED
Number Of Tanks:	5
Status:	Not reported
Comp Number:	9470
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-009470-000002
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	9470
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-009470-000003
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	9470
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-009470-000004
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	9470
Number:	Not reported

SHELL STATION (Continued) **U001562968**

Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009470-000005
Tank Status: Not reported
Capacity: 200
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00028604
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028604.pdf
Region: STATE
Facility ID: 00000016861
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: SHELL OIL COMPANY AND MOSES LE
Owner Address: P.O. BOX 4848
Owner City,St,Zip: ANAHEIM, CA 92803
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 4

SHELL STATION (Continued) **U001562968**

Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-09470

T101 **SHELL** **LUST** **S105033684**
NNW **8767 FIRESTONE BLVD E** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.365 mi.
1926 ft. **Site 2 of 2 in cluster T**

Relative:
Higher

Actual:
116 ft.

LUST:

Region:	STATE
Global Id:	T0603703424
Latitude:	33.936231999
Longitude:	-118.1242328
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/03/1991
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-09470
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703424
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703424
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov

SHELL (Continued) **S105033684**

Phone Number: Not reported

Status History:
Global Id: T0603703424
Status: Completed - Case Closed
Status Date: 04/03/1991

Global Id: T0603703424
Status: Open - Case Begin Date
Status Date: 07/20/1990

Global Id: T0603703424
Status: Open - Remediation
Status Date: 10/03/1990

Regulatory Activities:
Global Id: T0603703424
Action Type: Other
Date: 07/20/1990
Action: Leak Discovery

Global Id: T0603703424
Action Type: Other
Date: 07/20/1990
Action: Leak Stopped

Global Id: T0603703424
Action Type: Other
Date: 10/03/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-09470
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703424
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: LAKEWOOD
Enforcement Type: Not reported
Date Leak Discovered: 7/20/1990
Date Leak First Reported: 10/3/1990
Date Leak Record Entered: 12/4/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 7/20/1990
Date Case Last Changed on Database: 12/5/1990
Date the Case was Closed: 4/3/1991

SHELL (Continued) **S105033684**

How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	TADROS, JOHN	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1861.8096849787244570889546702
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		10/3/1990
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:	SHELL OIL CO.	
RP Address:	511 BROOKHURST ST., N., ANAHEIM, 92801	
Program:	LUST	
Lat/Long:	33.9362573 / -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:	IMPACTED SOIL REMOVED BY EXCAVATION DURING TANK REMOVAL.	

U102 **SITE 24, TANK #2** **HIST CORTESE** **S105023524**
SE **9821 DOWNEYNORWALK** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.366 mi.
1935 ft. **Site 1 of 2 in cluster U**

Relative:
Lower

Actual:
106 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	2766

U103 **CALSAN INC** **RCRA-SQG** **1000376765**
SE **9821 DOWNEY NORWALK RD** **LUST** **CAD982049850**
1/4-1/2 **DOWNEY, CA 90241** **UST**
0.366 mi. **SWEEPS UST**
1935 ft. **Site 2 of 2 in cluster U** **HIST UST**
FINDS
Relative: **HAZNET**
Lower **LOS ANGELES CO. HMS**
NPDES
Actual: **WDS**
106 ft. **ECHO**

RCRA-SQG:

Date form received by agency:	10/19/1987
Facility name:	CALSAN INC
Facility address:	9821 DOWNEY NORWALK RD DOWNEY, CA 90241
EPA ID:	CAD982049850
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9821 DOWNEY NORWALK RD DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 923-3571
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:	CALSAN INC
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:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

CALSAN INC (Continued) **1000376765**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST:
Region: STATE
Global Id: T0603793083
Latitude: 33.925017
Longitude: -118.111603
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 02/28/2012
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: AJL
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-09296
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603793083
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603793083
Contact Type: Regional Board Caseworker
Contact Name: AHMAD J. LAMAA
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 West 4th Street Suite 200
City: Los Angeles
Email: alamaa@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603793083
Status: Open - Case Begin Date
Status Date: 07/20/2000

CALSAN INC (Continued) **1000376765**

Global Id: T0603793083
Status: Open - Site Assessment
Status Date: 07/20/2000

Global Id: T0603793083
Status: Open - Site Assessment
Status Date: 02/28/2012

Regulatory Activities:
Global Id: T0603793083
Action Type: RESPONSE
Date: 07/13/2016
Action: Other Report / Document

Global Id: T0603793083
Action Type: RESPONSE
Date: 12/21/2011
Action: Correspondence

Global Id: T0603793083
Action Type: RESPONSE
Date: 04/01/2012
Action: Other Report / Document

Global Id: T0603793083
Action Type: ENFORCEMENT
Date: 05/13/2016
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603793083
Action Type: ENFORCEMENT
Date: 12/21/2011
Action: Referral to Regional Board

Global Id: T0603793083
Action Type: ENFORCEMENT
Date: 02/28/2012
Action: Staff Letter

Global Id: T0603793083
Action Type: Other
Date: 07/20/2000
Action: Leak Discovery

Global Id: T0603793083
Action Type: Other
Date: 09/13/2000
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-09296
Status: Leak being confirmed

CALSAN INC (Continued) **1000376765**

Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		OT
Global ID:	T0603793083	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	REGENTVIEW AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	7/20/2000	
Date Leak First Reported:		9/13/2000
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	7/20/2000	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/13/2000
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	MARK GREGOREK	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1113.175213239639922501245769 1
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	CALSAN, INC.	
RP Address:	9821 DOWNEY & NORWALK BLVD., DOWNEY CA 90241	
Program:	LUST	
Lat/Long:	33.925017 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

UST:

Facility ID:	9296
Permitting Agency:	LOS ANGELES COUNTY

CALSAN INC (Continued) **1000376765**

Latitude: 33.9266301
Longitude: -118.1102165

SWEEPS UST:
Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 5

Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9296

CALSAN INC (Continued) **1000376765**

Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9296
Number: 9
Board Of Equalization: 44-008396
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-009296-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00026A18
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026A18.pdf
Region: STATE
Facility ID: 00000060954
Facility Type: Other
Other Type: RUBBISH
Contact Name: BILL HARWOOD
Telephone: 2138690801
Owner Name: CALSAN INC
Owner Address: 9821 DOWNEY-NORWALK RD
Owner City,St,Zip: DOWNEY, CA 90241
Total Tanks: 0005

Tank Num: 001
Container Num: 01
Year Installed: Not reported
Tank Capacity: 00007000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 02

CALSAN INC (Continued) **1000376765**

Year Installed:	Not reported
Tank Capacity:	00007000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	003
Container Num:	03
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004
Container Num:	04
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	005
Container Num:	05
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110002788546

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZNET:

envid:	1000376765
Year:	2013
GEPAID:	CAC002716678
Contact:	DEBBIE TREADWELL

CALSAN INC (Continued) **1000376765**

Telephone: 5624477431
Mailing Name: Not reported
Mailing Address: 1955 WORKMAN MILL RD
Mailing City,St,Zip: WHITTIER, CA 906011415
Gen County: Los Angeles
TSD EPA ID: AZC950823111
TSD County: 99
Waste Category: Not reported
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.4
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 009483-009296
Facility Type: 0
Facility Status: Closed
Area: 1F
Permit Number: 00000344T
Permit Status: Closed

Region: LA
Permit Category: T
Facility Id: 009483-058959
Facility Type: 0
Facility Status: Permit
Area: 1F
Permit Number: 000768920
Permit Status: Permit

Region: LA
Permit Category: Not reported
Facility Id: 021584-030464
Facility Type: Not reported
Facility Status: OPEN
Area: 1F
Permit Number: Not reported
Permit Status: Not reported

NPDES:
Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 4
Regulatory Measure Id: 189179
Order No: Not reported
Regulatory Measure Type: Industrial
Place Id: Not reported
WDID: 4 19I003532
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported

CALSAN INC (Continued) **1000376765**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	4/3/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/3/1992
PLACE SIZE:	3
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	William Kalpakoff
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	RRomero@calmetservices.com
OPERATOR NAME:	Calmet Services Inc
OPERATOR ADDRESS:	PO Box 2137
OPERATOR CITY:	Paramount
OPERATOR STATE:	California
OPERATOR ZIP:	90723
OPERATOR CONTACT NAME:	Bill Kalpakoff
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	562-259-1239
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	562-869-0901
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	San Gabriel River

CALSAN INC (Continued) **1000376765**

CERTIFIER NAME: Not reported
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: Not reported
PRIMARY SIC: 4953-Refuse Systems
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

WDS:
Facility ID: 4 19I003532
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
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: 5628690901
Facility Contact: RAUL ANGUIANO
Agency Name: CALMET SERVICES INC
Agency Address: 9821 Downey Norwalk Rd
Agency City,St,Zip: Downey 902415502
Agency Contact: RAUL ANGUIANO
Agency Telephone: 5628690901
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
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 thosewho 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.

ECHO:
Envid: 1000376765

CALSAN INC (Continued) **1000376765**

Registry ID: 110002788546
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002788546

---

104 **DOWNEY DUMP** **SWF/LF** **S106079140**
ENE **9612 ARDINE STREET** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.398 mi.
2101 ft.

Relative:
Higher

Actual:
112 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-5382
Lat/Long:	33.93 / -118.11
Owner Name:	City Of Downey
Owner Telephone:	5629047102
Owner Address:	PO Box 7016
Owner Address2:	1111 Brookshire Ave
Owner City,St,Zip:	Downey, CA 90241
Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Pre-regulations
Landuse Name:	Not reported
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Annual
Accepted Waste:	Not reported
Closure Date:	09/01/1955
Closure Type:	Actual
Disposal Acreage:	$13.00
SWIS Num:	19-AA-5382
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Not reported
Lat/Long:	33.93 / -118.11

LOS ANGELES CO. LF:

Site ID:	1920
Alt. Address:	11016 Newville Avenue, Downey, CA 90242; 11014 South Pangborn Avenue, Downey, CA
Site Contact:	Not reported
Site Contact Phone:	Not reported
Site Email:	Not reported
Site Website:	Not reported
Site Type:	Unknown
Site SWIS Number:	19-AA-5382

DOWNEY DUMP (Continued) **S106079140**

Beginning Operation Date:	1950
Ending Operation Date:	Sep-55
Local Enforcement Agency:	City of Los Angeles, Building and Safety
Maximun Depth Fill(Ft):	30
Permitted Capacity:	Not reported
Present Use:	Rio San Gabriel Park
Remaining Capacity(Million):	Not reported
Status:	Closed
Waste Accepted:	Household Rubbish; Inert
Hours of Operation:	Not reported
Disposal Area (Acre):	Not reported

Detail As Of 01/2014:

Operator Name:	Charles Pratty
Operator Address:	Not reported
Operator City/State/Zip:	Not reported
Operator Contact:	Not reported
Operator Telephone:	Not reported
Operator Email:	Not reported
Owner Name:	City of Downey
Owner Address:	1111 BROOKSHIRE AVENUE
Owner City/State/Zip:	DOWNEY, CA 90241
Owner Contact:	Not reported
Owner Telephone:	(562) 904-7102
Owner Email:	Not reported

---

105 **ASTRO PAK FACILITY** **SLIC** **1006210223**
SSE **12201 PANGBORN** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.427 mi.
2255 ft.

Relative:
Lower

Actual:
103 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	11/30/2001
Global Id:	SL599992903
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.924327
Longitude:	-118.112505
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0302A
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	No further action required
SLIC:	0302A
Substance:	VOCs
Staff:	John Geroch

106
SSE
1/4-1/2
0.445 mi.
2351 ft.

SEQUEL CONTRACTORS INC
12240 S WOODRUFF AVE
DOWNEY, CA 90241

LUST
LOS ANGELES CO. HMS

S102062326
N/A

Relative:
Lower

Actual:
102 ft.

LUST:

Region:	STATE
Global Id:	T0603754702
Latitude:	33.921622
Longitude:	-118.11506
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/31/2005
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	TS
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	013260
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603754702
Contact Type:	Local Agency Caseworker
Contact Name:	TIM SMITH
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	tsmith@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603754702
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603754702
Status:	Completed - Case Closed
Status Date:	08/31/2005

Global Id:	T0603754702
Status:	Open - Case Begin Date
Status Date:	08/10/1999

Global Id:	T0603754702
Status:	Open - Site Assessment
Status Date:	11/19/1999

SEQUEL CONTRACTORS INC (Continued) **S102062326**

Regulatory Activities:

Global Id:	T0603754702
Action Type:	REMEDIATION
Date:	11/15/1999
Action:	Not reported
Global Id:	T0603754702
Action Type:	Other
Date:	08/10/1999
Action:	Leak Discovery
Global Id:	T0603754702
Action Type:	Other
Date:	11/19/1999
Action:	Leak Reported

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	013002-013260
Facility Type:	0
Facility Status:	Closed
Area:	1F
Permit Number:	00004991T
Permit Status:	Closed

107
West
1/4-1/2
0.447 mi.
2359 ft.

RED PHOSPHOROUS SITE **SEMS** **1000816939**
11810 LAKEWOOD BLVD. **PRP** **CAD983668856**
DOWNEY, CA 90241

Relative:
Lower

Actual:
106 ft.

SEMS:

Site ID:	904850
EPA ID:	CAD983668856
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0904850
EPA ID:	CAD983668856
Facility County:	LOS ANGELES
Short Name:	RED PHOSPHOROUS SITE
Congressional District:	29
IFMS ID:	097Q
SMSA Number:	4480
USGC Hydro Unit:	18070105
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.90000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported

RED PHOSPHOROUS SITE (Continued) **1000816939**

RST Code: O
EPA Region: 09
Classification: Inorganic Waste
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: ACRE
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date: 11/15/00
Site Fips Code: 06037
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 13003854.00000
Contact Name: Leslie Ramirez
Contact Tel: (415) 972-3978
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: APPROXIMATELY 100 POUNDS OF RED PHOSPHORUS DISCOVERED BY FIRE FIGHTERS IN DOWNEY, LOS ANGELES COUNTY, CALIF.

CERCLIS Assessment History:

Action Code: 001
Action: Notice Letters Issued
Date Started: / /
Date Completed: 06/01/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL
Date Started: 05/27/93
Date Completed: 06/03/93

RED PHOSPHOROUS SITE (Continued) **1000816939**

Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Emergency
Action Anomaly: Not reported

Action Code: 002
Action: Notice Letters Issued
Date Started: / /
Date Completed: 06/04/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE RECORDS
Date Started: 07/22/93
Date Completed: 07/22/93
Priority Level: Admin Record Compiled for a Removal Event
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

PRP:
PRP name: GUILLERMO ALVAREZ

V108 **COCA-COLA ENTERPRISES-WEST** **LUST** **S104164088**
WNW **8729 CLETA ST** **CHMIRS** **N/A**
1/4-1/2 **DOWNEY, CA 90241** **HIST CORTESE**
0.448 mi.
2366 ft. **Site 1 of 4 in cluster V**

Relative:
Lower

Actual:
109 ft.

LUST:
Region: STATE
Global Id: T0603703951
Latitude: 33.9315234
Longitude: -118.1286758
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/22/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES COUNTY
RB Case Number: I-12279
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

COCA-COLA ENTERPRISES-WEST (Continued) **S104164088**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703951
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703951
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603703951
Status:	Completed - Case Closed
Status Date:	07/22/1996

Global Id:	T0603703951
Status:	Open - Case Begin Date
Status Date:	04/15/1991

Global Id:	T0603703951
Status:	Open - Site Assessment
Status Date:	05/01/1991

Regulatory Activities:

Global Id:	T0603703951
Action Type:	Other
Date:	05/01/1991
Action:	Leak Discovery

Global Id:	T0603703951
Action Type:	Other
Date:	04/15/1991
Action:	Leak Stopped

Global Id:	T0603703951
Action Type:	Other
Date:	05/01/1991
Action:	Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles

COCA-COLA ENTERPRISES-WEST (Continued) **S104164088**

Facility Id:	I-12279	
Status:	Case Closed	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603703951	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	LAKEWOOD BLVD.	
Enforcement Type:	Not reported	
Date Leak Discovered:	5/1/1991	
Date Leak First Reported:		5/1/1991
Date Leak Record Entered:	5/22/1991	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	4/15/1991	
Date Case Last Changed on Database:		11/24/1993
Date the Case was Closed:		7/22/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	BERGE, JOHN TEN	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1555.28064055669185063673164 77
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		5/1/1991
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:	COCA-COLA ENTERPRISES INC.	
RP Address:	PO BOX 4067, OAKLAND, CA 94614-4067	
Program:	LUST	
Lat/Long:	33.9315234 / -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:	REMEDIAL ACTION WILL BE DETERMINED FOLLOWING THE ASSESSMENT OF LATERAL & VERTICAL EXTENTS OF CONTAMINATION.	

COCA-COLA ENTERPRISES-WEST (Continued) **S104164088**

CHMIRS:

OES Incident Number:	1-0285
OES notification:	01/15/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	1815
Year:	2011
Agency:	Coca Cola Refreshments
Incident Date:	1/15/2011
Admin Agency:	Downey Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Not reported
E Date:	Not reported
Substance:	Ammonia (1-2 PPM)
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	4
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported

COCA-COLA ENTERPRISES-WEST (Continued) **S104164088**

#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states they had a minor ammonia leak in the engine room of their facility due to unknown causes. Currently, Downey Fire Dept is on scene and is working with the responsible party to contain the leak. Four fleet mechanics that discovered the leak evacuated the area to report the ammonia release.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-12279

V109 **MARY MANDELLA** **SWEEPS UST** **S101583465**
WNW **8708 CLETA ST** **CA FID UST** **N/A**
1/4-1/2 **DOWNEY, CA 90241** **HIST CORTESE**
0.463 mi.
2442 ft. **Site 2 of 4 in cluster V**

Relative:
Lower

Actual:
109 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	16168
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-016168-000001
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	1

CA FID UST:

Facility ID:	19003838
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	8430 LUXOR ST
Mailing Address 2:	Not reported

MARY MANDELLA (Continued) **S101583465**

Mailing City,St,Zip: DOWNEY 90241
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-16168

V110 **ASTRO PAK FACILITY FORMER** **LUST** **S103437924**
WNW **8708 CLETA ST** **N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.463 mi.
2442 ft. **Site 3 of 4 in cluster V**

Relative:
Lower

Actual:
109 ft.

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-16168
Status: Pollution Characterization
Substance: Solvents
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: UK
Global ID: T0603705274
W Global ID: Not reported
Staff: SLC
Local Agency: 19000
Cross Street: LAKEWOOD
Enforcement Type: Not reported
Date Leak Discovered: 2/24/1993
Date Leak First Reported: 3/29/1993
Date Leak Record Entered: 2/28/1993
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 8/3/2000
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: OLD CASENO '042293-2'
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1416.224759809716708832576 4847
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 6/3/1991
Pollution Characterization Began: 12/16/1997

ASTRO PAK FACILITY FORMER (Continued) **S103437924**

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:	ASTRO PAK FACILITY FORMER
RP Address:	12201 PANGOBORN AVE., DOWNEY, CA 90241
Program:	SLIC
Lat/Long:	33.9315254 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	PCE SOIL & GROUNDWATER CONTAMINATION REFER TO SLIC #302

V111 **ASTRO PAK CORP.** **SLIC S105520951**
WNW **8700 CLETA STREET** **ENF N/A**
1/4-1/2 **DOWNEY, CA 90241**
0.476 mi.
2515 ft. **Site 4 of 4 in cluster V**

Relative:
Lower

Actual:
109 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	05/21/2009
Global Id:	SL2044E1590
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.9312536585241
Longitude:	-118.129141077385
Case Type:	Cleanup Program Site
Case Worker:	BA
Local Agency:	Not reported
RB Case Number:	0302E
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Not reported
Site History:	The former Astro Pak facility is located at 8700-8706 Cleta Street in Downey, California. The property occupies two rectangular parcels that are together approximately 180 feet by 280 feet. Cleta Street borders the site on the north, commercial/industrial properties border the site on the east and west, and residential properties border the site on the south. The facility was used for conducting high-precision industrial components cleaning operations. A vapor degreaser was used during early operations at the site with solvents mainly perchloroethylene (PCE) and trichloroethene (TCE). Site investigations conducted at the site since 1991 indicated that the soil and groundwater beneath the site were impacted with volatile

ASTRO PAK CORP. (Continued) **S105520951**

organic compounds (VOCs), mainly PCE and TCE. Various remedial measures have been implemented athe site to remediate the impacted soil and groundwater. In the former degreaser area, approximately 520 tons of soil was removed from an approximate 15-foot by 18-foot area to depths of 25 to 45 feet below ground surface (bgs) by large-diameter bucket auger from December 2002 to January 2003. In the former staging area, approximately 280 tons of shallow soil was removed from an approximate 23-foot by 35-foot area to a depth of 6 feet bgs by excavator in July 2003. From July 2003 through June 2013, a soil vapor extraction (SVE) system operated at the site and removed approximately 26,400 pounds of VOCs from the impacted soil. In November 2004, potassium and sodium permanganate was injected onsite and offsite for groundwater remediation. The injection of ozone gas between July 2008 and July 2010 was applied as a follow-up application of in]situ chemical oxidation (ISCO) for groundwater remediation at and downgradient of the site. Semi-annual groundwater monitoring is being conducted at the site.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	Remediation
SLIC:	0302E
Substance:	VOCs
Staff:	AH

ENF:

Region:	4
Facility Id:	208156
Agency Name:	Astro Pak Corporation
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.931715
Place Longitude:	-118.129354
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported

ASTRO PAK CORP. (Continued) **S105520951**

Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	SLIC
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	4SLIC302
Reg Measure Id:	172364
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	248181
Region:	4
Order / Resolution Number:	R4-2002-0086
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/19/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	06/19/2002
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 4SLIC302
Description:	CAO R4-2002-0086 issued 6/19/02 contains a time schedule for assessment & cleanup of soil & groundwater.
Program:	SLIC
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0

ASTRO PAK CORP. (Continued) **S105520951**

Project $ Completed: 0
Total $ Paid/Completed Amount: 0

112
SE
1/4-1/2
0.496 mi.
2617 ft.

ALPASE, INC. **SLIC S101540159**
9750 SEAACA **WDS N/A**
DOWNEY, CA 90241

Relative:
Lower

Actual:
103 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	11/01/1998
Global Id:	SL184161399
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.921728
Longitude:	-118.112546
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0380
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	No further action required
SLIC:	0380
Substance:	TPH
Staff:	Jenny Au

WDS:

Facility ID:	4 19I011825
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
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:	5628038675
Facility Contact:	AL WALKER
Agency Name:	PASE ALUMINUMINC
Agency Address:	PO Box 39065
Agency City,St,Zip:	Downey 902390065
Agency Contact:	AL WALKER
Agency Telephone:	5628038675
Agency Type:	Private

ALPASE, INC. (Continued) **S101540159**

SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
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 thosewho 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.

113
NNW
1/4-1/2
0.496 mi.
2618 ft.

THRIFTY #291 **LUST** **S102438996**
10808 LAKEWOOD BLVD **HAZNET** **N/A**
DOWNEY, CA 90240 **HIST CORTESE**
LOS ANGELES CO. HMS

Relative:
Higher

Actual:
117 ft.

LUST:

Region:	STATE
Global Id:	T0603703696
Latitude:	33.938673
Longitude:	-118.12179
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/18/1999
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JW
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-10959
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703696
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE

THRIFTY #291 (Continued) **S102438996**

City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703696
Contact Type: Regional Board Caseworker
Contact Name: JIMMIE WOO
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 WEST 4TH STREET, SUITE 200
City: LOS ANGELES
Email: jwoo@waterboards.ca.gov
Phone Number: 2135766600

Status History:
Global Id: T0603703696
Status: Completed - Case Closed
Status Date: 11/18/1999

Global Id: T0603703696
Status: Open - Case Begin Date
Status Date: 07/10/1995

Global Id: T0603703696
Status: Open - Site Assessment
Status Date: 07/10/1995

Global Id: T0603703696
Status: Open - Site Assessment
Status Date: 04/28/1997

Regulatory Activities:
Global Id: T0603703696
Action Type: Other
Date: 08/30/1995
Action: Leak Discovery

Global Id: T0603703696
Action Type: Other
Date: 08/30/1995
Action: Leak Stopped

Global Id: T0603703696
Action Type: Other
Date: 08/30/1995
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-10959
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported

THRIFTY #291 (Continued) **S102438996**

Case Type:	Groundwater	
Abatement Method Used at the Site:		OT
Global ID:	T0603703696	
W Global ID:	Not reported	
Staff:	JW	
Local Agency:	19000	
Cross Street:	CECILIA	
Enforcement Type:	Not reported	
Date Leak Discovered:	8/30/1995	
Date Leak First Reported:		8/30/1995
Date Leak Record Entered:	1/4/1996	
Date Confirmation Began:	7/10/1995	
Date Leak Stopped:	8/30/1995	
Date Case Last Changed on Database:		2/24/2000
Date the Case was Closed:		11/18/1999
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	RON SMITH	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1361.39255963873961863105557 58
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		4/28/1997
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:		1/1/1965
Hist Max MTBE Conc in Groundwater:		220
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	THRIFTY OIL COMPANY	
RP Address:	13539 E. FOSTER RD., SANTA FE SPRINGS, CA 90670	
Program:	LUST	
Lat/Long:	33.9389072 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	4/12/99 GRANT DEED INFO; 5/7/99 2ND QTR GW MON RPT 1999; 9/30/99 3RD QTR GW MON RPT 1999; 11/10/99 4TH QTR GW MON RPT 1999; 2/24/00 RPT OF WELL ABANDONMENT	

HAZNET:

envid:	S102438996
Year:	2015
GEPAID:	CAL000385738

THRIFTY #291 (Continued) **S102438996**

Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.42
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

envid:	S102438996
Year:	2015
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.05
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	S102438996
Year:	2014
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.168
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid: S102438996

THRIFTY #291 (Continued) **S102438996**

Year:	2014
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.01
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S102438996
Year:	2013
GEPAID:	CAL000385738
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.0375
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-10959

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	010972-058177
Facility Type:	0
Facility Status:	Permit
Area:	1F
Permit Number:	000758808
Permit Status:	Permit

W114 **VULTEE TRAINING FIELD** **ENVIROSTOR** **S107737583**
WSW **N/A**
1/4-1/2 **DOWNEY, CA**
0.500 mi.
2640 ft. **Site 1 of 3 in cluster W**

Relative:
Lower

Actual:
103 ft.

ENVIROSTOR:

Facility ID:	80000863
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.925
Longitude:	-118.1291
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F998400
Alias Type:	Federal Facility ID
Alias Name:	J09CA7161
Alias Type:	INPR
Alias Name:	80000863
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	04/29/1999
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

W115
WSW
1/4-1/2
0.500 mi.
2640 ft.

AIR FORCE PLANT #16 (NASA)
DOWNEY, CA
Site 2 of 3 in cluster W

ENVIROSTOR **S107735804**
N/A

Relative:
Lower

Actual:
103 ft.

ENVIROSTOR:

Facility ID:	80000160
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.925
Longitude:	-118.1291
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	AFP #16 (NASA); NASA INDUSTRIAL PLANT DOWNEY
Alias Type:	Alternate Name
Alias Name:	CA99799F530500
Alias Type:	Federal Facility ID
Alias Name:	J09CA0101
Alias Type:	INPR
Alias Name:	80000160
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

W116 **AIR FORCE PLANT #16 (NASA)** **FUDS** **1012129632**
WSW **N/A**
1/2-1 **DOWNEY, CA**
0.503 mi.
2658 ft. **Site 3 of 3 in cluster W**

Relative:
Lower

Actual:
103 ft.

FUDS:

EPA Region:	09
Congressional District:	40
FUDS Number:	J09CA0101
State:	CA
Facility Name:	AIR FORCE PLANT #16 (NASA)
Fiscal Year:	2013
City:	DOWNEY
Federal Facility ID:	CA9799F5305
Telephone:	213-452-3920
INST ID:	60965
County:	LOS ANGELES
RAB:	Not reported
CORPS_DIST:	Los Angeles District (SPL)
NPL Status:	Not Listed
CTC:	30.800000000000001
Current Owner:	Private Sector
Future Prog:	Not reported
Description:	The property is actually a concrete building of approximately 1,150 sq. ft. of floor area. The site is located in the City of Downey, Los Angeles County, California. The site is an old, unsuitable building that is no longer required for use by the National Aeronautic and Space Administration/Rockwell International.
Current Program:	Not reported
History:	Building No. 125 was constructed of reinforced concrete (12 in. thick roof and walls) in 1941. Its original use was a bomb shelter constructed during World War II by the U.S. Army Air Corps. During 1940 and 1941, the Air Force acquired the property by direct purchase. It was later used as a hazardous materials testing laboratory. It has now been abandoned in place. The General Services Administration concurred with NASA plans to demolish the building in accordance with federal property management regulations. Air Force Plant #16 was transferred to NASA in July of 1964. The facility was renamed NASA Industrial Plant, Downey, California. At this time NASA assumed status as the holding agency. Since 9 August 1972 RI was contracted to be custodian of building #125 and other property.
Latitude Degree:	33
Latitude Minute:	56
Latitude Second:	30
Latitude Direction:	N
Longitude Degree:	-118
Longitude Minute:	8
Longitude Second:	45
Longitude Direction:	E

117
SSE
1/2-1
0.538 mi.
2840 ft.

Relative:
Lower

Actual:
101 ft.

MANUFACTURERS WIRE CO
12320 WOODRUFF AVE
DOWNEY, CA 90241

Database(s): RCRA-SQG, ENVIROSTOR, FINDS, HAZNET, WDS, ECHO

EDR ID Number: 1000424734
EPA ID Number: CAD981386345

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MANUFACTURERS WIRE CO
Facility address:	12320 WOODRUFF AVE DOWNEY, CA 90241
EPA ID:	CAD981386345
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
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:	C RINDERLE, JR
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:	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

MANUFACTURERS WIRE CO (Continued) **1000424734**

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/11/1986
Site name: MANUFACTURERS WIRE CO
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 71003652
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.92041
Longitude: -118.1142
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981386345
Alias Type: EPA Identification Number
Alias Name: 110002140004
Alias Type: EPA (FRS #)
Alias Name: 71003652
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Non-Submittal
Completed Date: 02/01/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

MANUFACTURERS WIRE CO (Continued) **1000424734**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110002140004

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US EPA 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.

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:

envid: 1000424734
Year: 2004
GEPAID: CAD981386345
Contact: MICHAEL VOELTZ GENERAL MGR
Telephone: 5628034334
Mailing Name: Not reported
Mailing Address: 12320 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: 1.68
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000424734
Year: 2004
GEPAID: CAD981386345
Contact: MICHAEL VOELTZ GENERAL MGR
Telephone: 5628034334
Mailing Name: Not reported
Mailing Address: 12320 WOODRUFF AVE

MANUFACTURERS WIRE CO (Continued) **1000424734**

Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Recycler
Tons: 0.25
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000424734
Year: 2004
GEPAID: CAD981386345
Contact: MICHAEL VOELTZ GENERAL MGR
Telephone: 5628034334
Mailing Name: Not reported
Mailing Address: 12320 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Tons: 21.07
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000424734
Year: 2004
GEPAID: CAD981386345
Contact: MICHAEL VOELTZ GENERAL MGR
Telephone: 5628034334
Mailing Name: Not reported
Mailing Address: 12320 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Tons: 1.33
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000424734
Year: 2004
GEPAID: CAD981386345
Contact: MICHAEL VOELTZ GENERAL MGR
Telephone: 5628034334
Mailing Name: Not reported
Mailing Address: 12320 WOODRUFF AVE
Mailing City,St,Zip: DOWNEY, CA 902410000
Gen County: Not reported
TSD EPA ID: CAT080033681

MANUFACTURERS WIRE CO (Continued) **1000424734**

TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: 0.24
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
8 additional CA_HAZNET: record(s) in the EDR Site Report.

WDS:
Facility ID: 4 19I003691
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: 3237734949
Facility Contact: Michael Voelz
Agency Name: MANUFACTURERS WIRE COMPANY
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 3315
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
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 thosewho 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.

ECHO:
Envid: 1000424734

MANUFACTURERS WIRE CO (Continued) **1000424734**

Registry ID: 110002140004
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002140004

---

118 West 1/2-1 0.542 mi. 2860 ft. **DOWNEY FAMILY HOUSING** **ENVIROSTOR** **S107736234 N/A**

DOWNEY, CA

Relative: Lower

Actual: 108 ft.

ENVIROSTOR:

Facility ID:	80000075
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.93
Longitude:	-118.1305
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F531600
Alias Type:	Federal Facility ID
Alias Name:	J09CA0112
Alias Type:	INPR
Alias Name:	80000075
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	06/04/1991
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported

DOWNEY FAMILY HOUSING (Continued) **S107736234**

Schedule Revised Date: Not reported

119
SSE
1/2-1
0.555 mi.
2931 ft.

ARROW TRANSPORTATION CO., DOWNEY
12328 WOODRUFF AVENUE
DOWNEY, CA 90241

ENVIROSTOR **S103950971**
CHMIRS **N/A**
HIST CORTESE

Relative:
Lower

Actual:
100 ft.

ENVIROSTOR:

Facility ID:	71002480
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.92045
Longitude:	-118.1127
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD057349839
Alias Type:	EPA Identification Number
Alias Name:	71002480
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ARROW TRANSPORTATION CO., DOWNEY (Continued) **S103950971**

CHMIRS:

OES Incident Number:	4-7309
OES notification:	12/19/2014
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	SEWAGE
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1545
Year:	2014
Agency:	City of Downey Public Works
Incident Date:	12/19/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sanitary over flow
Quantity Released:	40
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported

ARROW TRANSPORTATION CO., DOWNEY (Continued) **S103950971**

Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Blockage
Fatals:	No
Comments:	Not reported
Description:	Roots in the line caused this release which has been completely recovered.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-11024

---

120 WNW 1/2-1 0.615 mi. 3245 ft.

Relative: Higher

Actual: 112 ft.

PIH HEALTH HOSPITAL DOWNEY **ENVIROSTOR S100217721**
11500 BROOKSHIRE AVE **CHMIRS N/A**
DOWNEY, CA 90241 **LOS ANGELES CO. HMS**

ENVIROSTOR:

Facility ID:	71003236
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.93529
Longitude:	-118.1302
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL000038831
Alias Type:	EPA Identification Number
Alias Name:	71003236

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:
OES Incident Number: 1-3728
OES notification: 06/21/2011
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: Yes
Waterway: Unknown Flood Control Channel
Spill Site: Merchant/Business
Cleanup By: Unknown
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Gram(s)

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Other:	Not reported
Date/Time:	1100
Year:	2011
Agency:	City of Downey FD
Incident Date:	6/21/2011
Admin Agency:	Downey Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Unknown Flood Control Channel
E Date:	Not reported
Substance:	Unknown Dry Powder, White Colored, Poss Oxidizer/Corrosive
Quantity Released:	3
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	3
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Vehicle repair inside a trailer resulted in exposure, material was on the walls of the trailer and made the repairmen ill, during decontamination the rinse agent and the material flowed into the storm drain after an catch basin failed, unknown who is handling containment and clean up..
OES Incident Number:	907920
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**14-SEP-89**
Property Use:	300
Agency Id Number:	19055
Agency Incident Number:	89-9003
Time Notified:	854
Time Completed:	1300
Surrounding Area:	400
Estimated Temperature:	75
Property Management:	P
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	4
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	D. LOCKARD, CAPTAIN
Report Date:	19-SEP-89
Facility Telephone:	213 869-7331
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	14-SEP-89
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	18-MAY-90
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Not reported
OES Incident Number:	012809
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**07-SEP-90**
Property Use:	300
Agency Id Number:	19055
Agency Incident Number:	20150
Time Notified:	1229
Time Completed:	1600
Surrounding Area:	400
Estimated Temperature:	Not reported

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Property Management:	P
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	0
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	D. LOCKARD, CAPT.#9
Report Date:	07-SEP-90
Facility Telephone:	213 869-7331
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	07-SEP-90
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	06-JUN-91
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	N
Description:	Not reported

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T

PIH HEALTH HOSPITAL DOWNEY (Continued) **S100217721**

Facility Id: 011279-058944
Facility Type: 0
Facility Status: Permit
Area: 1F
Permit Number: 000779447
Permit Status: Permit

121
ESE
1/2-1
0.634 mi.
3348 ft.

PEACOCK ENGINEERING & MANUFACTURING **ENVIROSTOR** **S101480839**
10620 EAST FIRESTONE BOULEVARD **SLIC** **N/A**
NORWALK, CA 90650

Relative:
Higher

Actual:
111 ft.

ENVIROSTOR:
Facility ID: 19350006
Status: Refer: Other Agency
Status Date: 08/31/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Chatsworth
Assembly: Not reported
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * OXYGENATED SOLVENTS * UNSPECIFIED ACID SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * WASTE OIL & MIXED OIL Cyanide (free
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD057352403
Alias Type: EPA Identification Number
Alias Name: 19350006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/08/1994
Comments: CALSITES VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/09/1988
Comments: SITE SCREENING DONE DHS WILL CONDUCT FURTHER INVESTIGATION DUE TO THE

PEACOCK ENGINEERING & MANUFACTURING (Continued) **S101480839**

POTENTIAL FOR CONTAMINATION FROM UNDERGROUND TANKS

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/15/1988
Comments:	SITE SCREENING DONE REASSESSMENT OF PA DONE BY E&E RECOMMEND NFA UNDER CERCLA DUE TO LOW ROUTE CHARACTERISTICS VALUE AND LOW TARGET VALUE

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	04/10/1987
Comments:	SITE SCREENING DONE CERCLIS SITE

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/01/1998
Global Id:	SL184791462
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.9256104304938
Longitude:	-118.106782436371
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0640
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

122
SSE
1/2-1
0.639 mi.
3374 ft.

QM BULK STORAGE FAC **ENVIROSTOR** **S107737112**
LONG BEACH, CA **N/A**

Relative:
Lower

Actual:
100 ft.

ENVIROSTOR:

Facility ID:	80000423
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported

QM BULK STORAGE FAC (Continued) **S107737112**

Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.91944
Longitude:	-118.1125
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F556900
Alias Type:	Federal Facility ID
Alias Name:	J09CA0559
Alias Type:	INPR
Alias Name:	80000423
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	04/18/1991
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

---

123 **DOWNEY USD** **RCRA-SQG** **1000314683**
NNW **11040 BROOKSHIRE AVE** **ENVIROSTOR** **CAD100610716**
1/2-1 **DOWNEY, CA 90241** **SCH**
0.665 mi. **SWEEPS UST**
3509 ft. **FINDS**
HAZNET
Relative: **NPDES**
Higher **ECHO**

Actual: **119 ft.**

RCRA-SQG:

Date form received by agency:	09/30/1986
Facility name:	DOWNEY USD

DOWNEY USD (Continued) **1000314683**

Facility address:	11040 BROOKSHIRE AVE DOWNEY, CA 90241
EPA ID:	CAD100610716
Mailing address:	11627 BROOKSHIRE AVE DOWNEY, CA 90241
Contact:	ENVIRONMENTAL MANAGER
Contact address:	11040 BROOKSHIRE AVE DOWNEY, CA 90241
Contact country:	US
Contact telephone:	(213) 923-6711
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:	District
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	DOWNEY UNIFIED SCHOOL DIST
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	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

DOWNEY USD (Continued) **1000314683**

Violation Status: No violations found

ENVIROSTOR:

Facility ID:	19820097
Status:	No Further Action
Status Date:	01/12/2006
Site Code:	304414
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	28
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.93801
Longitude:	-118.1258
APN:	6254-031-900, 6254031904
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead Mercury (elemental TPH-gas Cadmium and compounds Chromium VI
Confirmed COC:	TPH-gas Cadmium and compounds Chromium VI Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead Mercury (elemental
Potential Description:	SOIL
Alias Name:	DOWNEY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	DOWNEY USD-DOWNEY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	6254-031-900
Alias Type:	APN
Alias Name:	6254031904
Alias Type:	APN
Alias Name:	304414
Alias Type:	Project Code (Site Code)
Alias Name:	19820097
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	09/19/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	06/18/2003
Comments:	Not reported

DOWNEY USD (Continued) **1000314683**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/24/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/12/2006
Comments: Transformers on site were documented to be dry-type transformers and do not warrant PCB sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 08/04/2004
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/01/2003
Comments: Initial Study for Measure D Improvements

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/25/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19820097
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 28
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP

DOWNEY USD (Continued) **1000314683**

Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304414
Assembly:	58
Senate:	32
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	01/12/2006
Restricted Use:	NO
Funding:	School District
Latitude:	33.93801
Longitude:	-118.1258
APN:	6254-031-900, 6254031904
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Lead, Mercury (elemental, TPH-gas, Cadmium and compounds, Chromium VI
Confirmed COC:	TPH-gas, Cadmium and compounds, Chromium VI, Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Lead, Mercury (elemental
Potential Description:	SOIL
Alias Name:	DOWNEY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	DOWNEY USD-DOWNEY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	6254-031-900
Alias Type:	APN
Alias Name:	6254031904
Alias Type:	APN
Alias Name:	304414
Alias Type:	Project Code (Site Code)
Alias Name:	19820097
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	09/19/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	06/18/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/24/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

DOWNEY USD (Continued) **1000314683**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/12/2006
Comments: Transformers on site were documented to be dry-type transformers and do not warrant PCB sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 08/04/2004
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/01/2003
Comments: Initial Study for Measure D Improvements

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/25/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Status: Active
Comp Number: 13673
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

DOWNEY USD (Continued) **1000314683**

FINDS:

Registry ID: 110002666268

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1000314683
Year:	2015
GEPAID:	CAD100610716
Contact:	QUINTON RILES
Telephone:	5624696711
Mailing Name:	Not reported
Mailing Address:	11627 BROOKSHIRE AVE
Mailing City,St,Zip:	DOWNEY, CA 902414911
Gen County:	Los Angeles
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.23
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	1000314683
Year:	2012
GEPAID:	CAD100610716
Contact:	JAMES TALLO
Telephone:	5624696707
Mailing Name:	Not reported
Mailing Address:	PO BOX 7017
Mailing City,St,Zip:	DOWNEY, CA 902414999
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.025
Cat Decode:	Not reported
Method Decode:	Not reported

DOWNEY USD (Continued) **1000314683**

Facility County: Los Angeles

envid: 1000314683
Year: 2012
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0175
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000314683
Year: 2012
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Not reported
Tons: 0.15
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000314683
Year: 2012
GEPAID: CAD100610716
Contact: JAMES TALLO
Telephone: 5624696707
Mailing Name: Not reported
Mailing Address: PO BOX 7017
Mailing City,St,Zip: DOWNEY, CA 902414999
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: Not reported
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

DOWNEY USD (Continued) **1000314683**

Click this hyperlink while viewing on your computer to access
46 additional CA_HAZNET: record(s) in the EDR Site Report.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	424987
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C363336
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/29/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/20/2015
Discharge Name:	Downey Unified School District
Discharge Address:	11627 Brookshire Ave
Discharge City:	Downey
Discharge State:	California
Discharge Zip:	90241
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported

DOWNEY USD (Continued) **1000314683**

CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	187620
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C322285
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	6/26/2003
STATUS CODE NAME:	Active
STATUS DATE:	4/24/2012
PLACE SIZE:	15
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	BUCK Weinfurter
FACILITY CONTACT TITLE:	Director Of Maintenance
FACILITY CONTACT PHONE:	5629043592
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Downey Unified School District
OPERATOR ADDRESS:	11627 Brookshire Ave
OPERATOR CITY:	Downey
OPERATOR STATE:	California

DOWNEY USD (Continued) **1000314683**

OPERATOR ZIP:	90241
OPERATOR CONTACT NAME:	Robert Weinfurter
OPERATOR CONTACT TITLE:	Director, M.O.T. Services
OPERATOR CONTACT PHONE:	562-469-6701
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	bweinfurter@dusd.net
OPERATOR TYPE:	Special District
DEVELOPER NAME:	Downey Unified School District
DEVELOPER ADDRESS:	11627 Brookshire Ave
DEVELOPER CITY:	Downey
DEVELOPER STATE:	California
DEVELOPER ZIP:	90241
DEVELOPER CONTACT NAME:	Robert Weinfurter
DEVELOPER CONTACT TITLE:	Director, M.O.T. Services
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	562-904-3592
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	robert weinfurter
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	07-JUL-10
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

ECHO:

Envid:	1000314683
Registry ID:	110002666268
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002666268

124
SW
1/2-1
0.665 mi.
3513 ft.

VULTEE AIRCRAFT CO **ENVIROSTOR** **S107737582**
N/A

DOWNEY, CA

Relative:
Lower

Actual:
97 ft.

ENVIROSTOR:

Facility ID:	80000851
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005

VULTEE AIRCRAFT CO (Continued) **S107737582**

Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.92083
Longitude:	-118.1291
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F997200
Alias Type:	Federal Facility ID
Alias Name:	J09CA7149
Alias Type:	INPR
Alias Name:	80000851
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	04/29/1999
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

---

125 SSW 1/2-1 0.778 mi. 4110 ft. **STORM DRAIN BELLFLOWER&IMPERIAL HWY DOWNEY, CA** **Notify 65** **S100178469 N/A**

Relative: Lower

Actual: 95 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported

STORM DRAIN (Continued) **S100178469**

Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

126
WSW
1/2-1
0.818 mi.
4321 ft.

NASA INDUSTRIAL PLANT- KAISER
12214 LAKEWOOD BLVD.
DOWNEY, CA 90241

ENVIROSTOR **S104564877**
SLIC **N/A**
VCP
HIST CORTESE

Relative:
Lower

Actual:
101 ft.

ENVIROSTOR:

Facility ID:	19370366
Status:	No Further Action
Status Date:	08/02/2012
Site Code:	301157
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	165
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 4 - Los Angeles
Lead Agency:	RWQCB 4 - Los Angeles,SMBRP
Program Manager:	Tedd Yargeau
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Assembly:	58
Senate:	32
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.91829
Longitude:	-118.1326
APN:	6256-004-019, 6256004036
Past Use:	AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, MANUFACTURING - INDUSTRIAL MACHINERY, RESEARCH - AEROSPACE
Potential COC:	Arsenic Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE Arsenic
Potential Description:	OTH, SOIL, SV, IA
Alias Name:	NASA INDUSTRIAL PLANT
Alias Type:	Alternate Name
Alias Name:	6256-004-019
Alias Type:	APN
Alias Name:	6256004036
Alias Type:	APN
Alias Name:	110000830824
Alias Type:	EPA (FRS #)
Alias Name:	301157
Alias Type:	Project Code (Site Code)
Alias Name:	19370366
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/20/1995
Comments:	Site was identified from a non-emergency release report dated 12-23-94. Ground water at the site is contaminated with TCE and PCE.

NASA INDUSTRIAL PLANT- KAISER (Continued) **S104564877**

Due to evidence of a release of hazardous waste, a PEA is required. A letter of notification has been sent to the contact person.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/04/2004
Comments: VCA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 11/07/2002
Comments: A Voluntary Cleanup Agreement was signed by DTSC and Kaiser Health Foundation on November 7, 2002. The purpose of the VCA is to conduct a PEA on Parcels II and IV of the Site. Parcels II and IV are being proposed for hospital complex development.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 02/27/2009
Global Id: SL2045E1618
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.9239723749663
Longitude: -118.127961158752
Case Type: Cleanup Program Site
Case Worker: BA
Local Agency: Not reported
RB Case Number: 0302C
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern: Not reported
Site History: The former NASA Industrial Plant (site) occupies approximately 155 acres in Downey, California, and is bound to the north by Stewart and Gray Road, to the south by Imperial Highway, to the west by Lakewood Boulevard and to the east by Bellflower Boulevard. The site was used for aircraft, and later, aerospace manufacturing by a series of entities from 1929 through 1999. The site was government owned and contractor operated. NASA utilized the plant for manufacture of Apollo and Space Shuttle components. Site activities included the use and storage of chlorinated solvents in support of various manufacturing processes. In 1986 the government declared the property excess to its needs and site manufacturing operations ceased at the site. During the fourth quarter of 2003, the property was transferred from NASA to the City of Downey, California. Following early transfer

NASA INDUSTRIAL PLANT- KAISER (Continued) **S104564877**

from NASA to the City of Downey, the various portions of the property were redeveloped. International Risk Assumption-Downey LLC assumed the role of responsible party as part of the early transfer arrangements between NASA, the State of California, and the City of Downey. Site assessments conducted at the site indicated that the soil and groundwater were impacted with volatile organic compounds (VOCs) mainly perchloroethylene (PCE), trichloroethene (TCE) and Freon 113. A soil vapor extraction (SVE) system was installed and operated at various locations of the site from 2000 to 2008 to cleanup the soil. During the period of operation, the system removed approximately 6,000 pounds of VOCs. Sodium permanganate solution was injected into a silt layer at the 40 to 45 feet bgs interval below former Building 244 for in situ remediation to cleanup the residual VOCs in the silt layer of the vadose zone. In February 2012, the Regional Board issued a No Further Action (NFA) for site soils. Groundwater beneath the site has been subjected to in situ bioremediation using Enhanced Reductive Dechlorination (ERD) to address the dissolved phase PCE and TCE as well as the subsequent breakdown products from the remedial activities. The ERD process involved the injection of approximately 14,000,000 gallons of dilute carbohydrate solution at 174 points across the site beginning in November 2005. In October 2010, a de-halogenating bacteria was added to the solution injected in the southernmost site locations to enhance the remediation of VOCs at this location. Active injections of carbohydrate solution were stopped after first quarter 2012. Post-remediation groundwater monitoring is being conducted at the site.

Click here to access the California GeoTracker records for this facility:

VCP:

Facility ID:	19370366
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	165
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 4 - Los Angeles
Lead Agency:	RWQCB 4 - Los Angeles,SMBRP
Lead Agency Description:	RWQCB 4 - Los Angeles
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Tedd Yargeau
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Site Code:	301157
Assembly:	58
Senate:	32
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	08/02/2012
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.91829 / -118.1326
APN:	6256-004-019, 6256004036
Past Use:	AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, MANUFACTURING - INDUSTRIAL MACHINERY, RESEARCH - AEROSPACE
Potential COC:	30001, 30022, 30027

NASA INDUSTRIAL PLANT- KAISER (Continued) **S104564877**

Confirmed COC:	30022,30027,30001
Potential Description:	OTH, SOIL, SV, IA
Alias Name:	NASA INDUSTRIAL PLANT
Alias Type:	Alternate Name
Alias Name:	6256-004-019
Alias Type:	APN
Alias Name:	6256004036
Alias Type:	APN
Alias Name:	110000830824
Alias Type:	EPA (FRS #)
Alias Name:	301157
Alias Type:	Project Code (Site Code)
Alias Name:	19370366
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/20/1995
Comments:	Site was identified from a non-emergency release report dated 12-23-94. Ground water at the site is contaminated with TCE and PCE. Due to evidence of a release of hazardous waste, a PEA is required. A letter of notification has been sent to the contact person.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/04/2004
Comments:	VCA

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/07/2002
Comments:	A Voluntary Cleanup Agreement was signed by DTSC and Kaiser Health Foundation on November 7, 2002. The purpose of the VCA is to conduct a PEA on Parcels II and IV of the Site. Parcels II and IV are being proposed for hospital complex development.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-00386

127
NNE
1/2-1
0.828 mi.
4373 ft.

EAST MIDDLE SCHOOL
10301 WOODRUFF AVENUE
DOWNEY, CA 90241

ENVIROSTOR SCH

S103620928
N/A

Relative:
Higher

Actual:
126 ft.

ENVIROSTOR:

Facility ID:	19820106
Status:	Inactive - Withdrawn
Status Date:	04/16/2007
Site Code:	304434
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	0.4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.94227
Longitude:	-118.1128
APN:	628-501-4902
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead
Confirmed COC:	Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Lead
Potential Description:	SOIL
Alias Name:	DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	DOWNEY USD-EAST MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	EAST MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	628-501-4902
Alias Type:	APN
Alias Name:	304434
Alias Type:	Project Code (Site Code)
Alias Name:	19820106
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	11/13/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	04/16/2007
Comments:	CRU complete.

EAST MIDDLE SCHOOL (Continued) **S103620928**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	01/07/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	10/21/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	07/22/2004
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19820106
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.4
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304434
Assembly:	58
Senate:	32
Special Program Status:	Not reported
Status:	Inactive - Withdrawn
Status Date:	04/16/2007
Restricted Use:	NO
Funding:	School District
Latitude:	33.94227
Longitude:	-118.1128
APN:	628-501-4902
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Lead
Confirmed COC:	Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD,

EAST MIDDLE SCHOOL (Continued) **S103620928**

DDE, DDT, Lead
Potential Description: SOIL
Alias Name: DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: DOWNEY USD-EAST MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: EAST MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: 628-501-4902
Alias Type: APN
Alias Name: 304434
Alias Type: Project Code (Site Code)
Alias Name: 19820106
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/16/2007
Comments: CRU complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/07/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/21/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/22/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

128
SE
1/2-1
0.953 mi.
5033 ft.

COSTCO WHOLESALE NO 410
12324 HOXIE AVE
NORWALK, CA 90650

RCRA-LQG
ENVIROSTOR
US AIRS
HAZNET
NPDES

1004677945
CAR000103283

Relative:
Lower

Actual:
102 ft.

RCRA-LQG:

Date form received by agency:	05/05/2014
Facility name:	COSTCO WHOLESALE NO 410
Facility address:	12324 HOXIE AVE NORWALK, CA 90650
EPA ID:	CAR000103283
Mailing address:	3207 GREY HAWK CT STE 200 CARLSBAD, CA 92010
Contact:	ELIZABETH CAMPOS
Contact address:	3207 GREY HAWK CT STE 200 CARLSBAD, CA 92010
Contact country:	US
Contact telephone:	760-602-8709
Contact email:	ECAMPOS@3ECOMPANY.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	NORWALK LA MIRADA UNIFIED SCHOOL DIST
Owner/operator address:	12700 NORWALK BLVD NORWALK, 90650
Owner/operator country:	US
Owner/operator telephone:	562-929-5700
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	11/27/1985
Owner/Op end date:	Not reported

Owner/operator name:	COSTCO WHOLESALE CORP
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:	04/18/1983
Owner/Op end date:	Not reported

Handler Activities Summary:

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: 122

. Waste code: 131
. Waste name: 131

. Waste code: 133
. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 141
. Waste name: 141

. Waste code: 151
. Waste name: 151

. Waste code: 172
. Waste name: 172

. Waste code: 181
. Waste name: 181

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

. Waste code: 223
. Waste name: 223

. Waste code: 232
. Waste name: 232

. Waste code: 271
. Waste name: 271

. Waste code: 272
. Waste name: 272

. Waste code: 281
. Waste name: 281

. Waste code: 291
. Waste name: 291

. Waste code: 311
. Waste name: 311

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: 541
. Waste name: 541

. Waste code: 561
. Waste name: 561

. Waste code: 611
. Waste name: 611

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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.

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Historical Generators:
Date form received by agency: 08/20/2001
Site name: COSTCO WHOLESALE NO 410
Classification: Small Quantity Generator

. Waste code: D011
. Waste name: SILVER

Violation Status: No violations found

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

ENVIROSTOR:
Facility ID: 71003261
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 58
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.91995
Longitude: -118.1025
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000060246
Alias Type: EPA Identification Number
Alias Name: 71003261
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

US AIRS MINOR:
Envid: 1004677945
Region Code: 09
Programmatic ID: AIR 0900000006037R9992
Facility Registry ID: 110012221461
D and B Number: Not reported
Primary SIC Code: 5531
NAICS Code: 562112

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 09
Programmatic ID: AIR 0900000006037R9992
Facility Registry ID: 110012221461
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Stratospheric Ozone Protection
Activity Date: 2004-03-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

HAZNET:
envid: 1004677945
Year: 2015
GEPAID: CAR000103283
Contact: LISA SIMPSON
Telephone: 4253136275
Mailing Name: Not reported
Mailing Address: 3207 GREY HAWK CT STE 200
Mailing City,St,Zip: CARLSBAD, CA 92010
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0855
Cat Decode: Unspecified solvent mixture
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1004677945
Year: 2015
GEPAID: CAR000103283
Contact: LISA SIMPSON
Telephone: 4253136275
Mailing Name: Not reported
Mailing Address: 3207 GREY HAWK CT STE 200
Mailing City,St,Zip: CARLSBAD, CA 92010
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus inorganics
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0075
Cat Decode: Off-specification, aged or surplus inorganics
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

(H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1004677945
Year: 2015
GEPAID: CAR000103283
Contact: LISA SIMPSON
Telephone: 4253136275
Mailing Name: Not reported
Mailing Address: 3207 GREY HAWK CT STE 200
Mailing City,St,Zip: CARLSBAD, CA 92010
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Pharmaceutical waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0085
Cat Decode: Pharmaceutical waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1004677945
Year: 2015
GEPAID: CAR000103283
Contact: LISA SIMPSON
Telephone: 4253136275
Mailing Name: Not reported
Mailing Address: 3207 GREY HAWK CT STE 200
Mailing City,St,Zip: CARLSBAD, CA 92010
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Alkaline solution without metals pH >= 12.5
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0445
Cat Decode: Alkaline solution without metals pH >= 12.5
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1004677945
Year: 2015
GEPAID: CAR000103283
Contact: LISA SIMPSON
Telephone: 4253136275
Mailing Name: Not reported
Mailing Address: 3207 GREY HAWK CT STE 200
Mailing City,St,Zip: CARLSBAD, CA 92010
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

Tons: 0.556
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
67 additional CA_HAZNET: record(s) in the EDR Site Report.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	456320
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C374107
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/24/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	COSTCO WHOLESALE
Discharge Address:	500 N State College Blvd
Discharge City:	Orange
Discharge State:	California
Discharge Zip:	92868
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported

COSTCO WHOLESALE NO 410 (Continued) **1004677945**

DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

129
WSW
1/2-1
0.962 mi.
5077 ft.

SUSSMAN MIDDLE SCHOOL **ENVIROSTOR** **S103626770**
12500 BIRCHDALE AVENUE **SCH** **N/A**
DOWNEY, CA 90242

Relative:
Lower

Actual:
102 ft.

ENVIROSTOR:

Facility ID:	19820107
Status:	No Further Action
Status Date:	11/13/2003
Site Code:	304432
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	.4
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	58
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.93513
Longitude:	-118.1333
APN:	NONE SPECIFIED

SUSSMAN MIDDLE SCHOOL (Continued) **S103626770**

Past Use: * EDUCATIONAL SERVICES
Potential COC: Arsenic Lead Aldrin Chlordane DDD DDE DDT Dieldrin Endosulfan Endrin HCH (alpha HCH (beta HCH (gamma) Lindane HCH-technical Heptachlor Heptachlor epoxide Mirex Toxaphene
Confirmed COC: 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30010-NO 30013-NO 30309-NO 30313-NO 30314-NO 30315-NO 30316-NO 30207-NO 30400-NO 30261-NO 30043-NO 30308-NO 30023-NO
Potential Description: SOIL
Alias Name: DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: DOWNEY USD-SUSSMAN MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: SUSSMAN MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: 304432
Alias Type: Project Code (Site Code)
Alias Name: 19820107
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/27/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/08/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19820107

SUSSMAN MIDDLE SCHOOL (Continued) **S103626770**

Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	.4
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304432
Assembly:	58
Senate:	32
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	11/13/2003
Restricted Use:	NO
Funding:	School District
Latitude:	33.93513
Longitude:	-118.1333
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic, Lead, Aldrin, Chlordane, DDD, DDE, DDT, Dieldrin, Endosulfan, Endrin, HCH (alpha, HCH (beta, HCH (gamma) Lindane, HCH-technical, Heptachlor, Heptachlor epoxide, Mirex, Toxaphene
Confirmed COC:	30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO, 30013-NO, 30309-NO, 30313-NO, 30314-NO, 30315-NO, 30316-NO, 30207-NO, 30400-NO, 30261-NO, 30043-NO, 30308-NO, 30023-NO
Potential Description:	SOIL
Alias Name:	DOWNEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	DOWNEY USD-SUSSMAN MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	SUSSMAN MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	304432
Alias Type:	Project Code (Site Code)
Alias Name:	19820107
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	11/13/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	12/14/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	10/27/2004

SUSSMAN MIDDLE SCHOOL (Continued) **S103626770**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	01/08/2004
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DOWNEY	S103878784	STONEWOOD CENTER	FIRESTONE	90241	SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/15/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/15/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 11/01/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 44

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/15/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/20/2016
Date Data Arrived at EDR: 09/21/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 51

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/20/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/04/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 10/20/2016
Number of Days to Update: 23

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 87
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/26/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/08/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 81
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 08/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/23/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/01/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/12/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 65

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 12/05/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 52

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/23/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 42

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 11/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/10/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/15/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/15/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 12/16/2016
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/16/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 59

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/20/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 11/10/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 9

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 10/21/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 23

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/10/2016
Number of Days to Update: 47

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 11/01/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 19

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/11/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 10/24/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/04/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 71

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/14/2016
Date Data Arrived at EDR: 12/16/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 6

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 09/08/2016
Date Data Arrived at EDR: 09/09/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 35

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/15/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 10/18/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 58

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/18/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 17

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/08/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 44

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 53

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/09/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/20/2016
Date Data Arrived at EDR: 10/25/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 51

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 21

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 45

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 12/16/2016
Number of Days to Update: 73

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 12/21/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/21/2016
Date Data Arrived at EDR: 09/22/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 26
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/15/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 60

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/15/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 19

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 09/27/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 55

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/04/2016
Date Data Arrived at EDR: 10/06/2016
Date Made Active in Reports: 12/16/2016
Number of Days to Update: 71

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 12/02/2016
Number of Days to Update: 87

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 08/12/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 49

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/14/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 67
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 27
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 48
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 11/14/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/28/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 42
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 08/31/2016
Date Made Active in Reports: 12/12/2016
Number of Days to Update: 103

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/03/2016
Date Made Active in Reports: 09/09/2016
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/12/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

9300, 9350 AND 9400 HALL ROAD
9301, 9333 AND 9399 STEWART & GRAY ROAD
DOWNEY, CA 90241

TARGET PROPERTY COORDINATES

Latitude (North):	33.929369 - 33° 55' 45.73''
Longitude (West):	118.119214 - 118° 7' 9.17''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	396552.7
UTM Y (Meters):	3754694.2
Elevation:	110 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5633777 WHITTIER, CA
Version Date:	2012
West Map:	5633765 SOUTH GATE, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

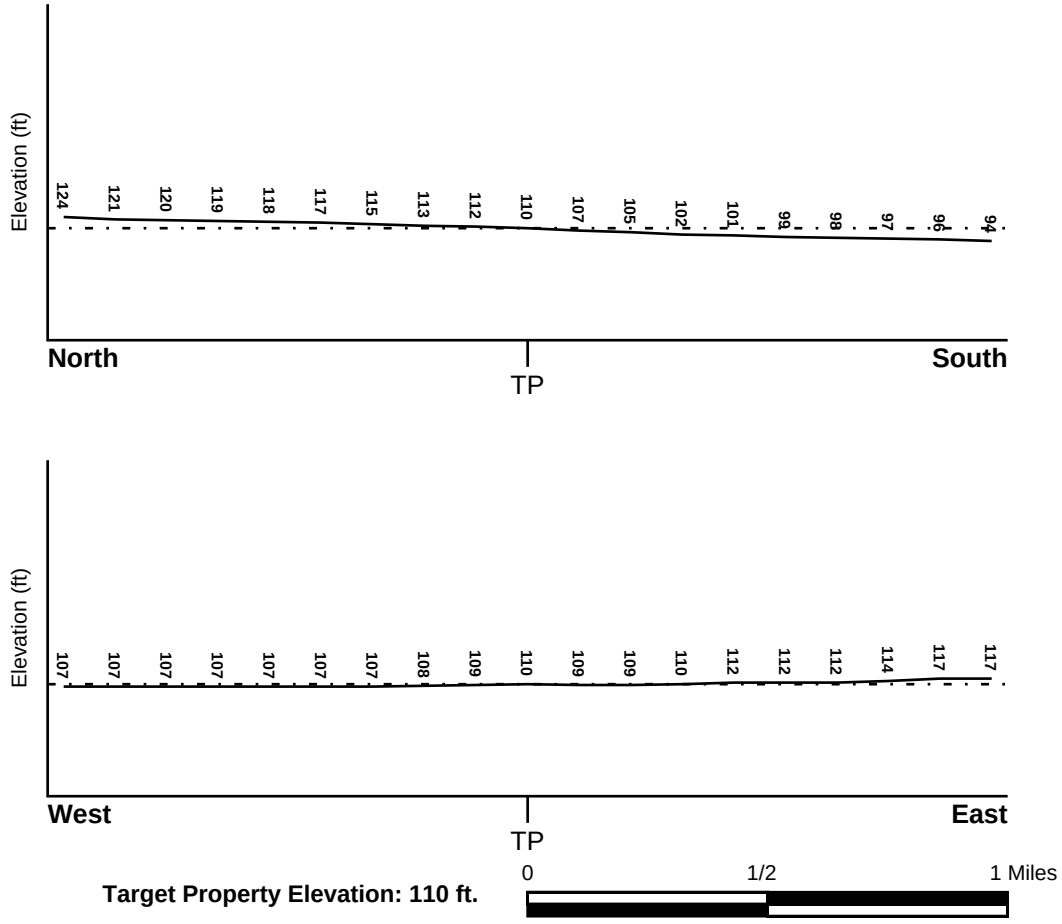
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1840F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1810F	FEMA FIRM Flood data
06037C1830F	FEMA FIRM Flood data
06037C1820F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WHITTIER	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
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

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000139064	1/4 - 1/2 Mile SSE
3	USGS40000139161	1/2 - 1 Mile North
A5	USGS40000139157	1/2 - 1 Mile NE
7	USGS40000139019	1/2 - 1 Mile SE
C12	USGS40000139100	1/2 - 1 Mile East
C13	USGS40000139101	1/2 - 1 Mile East
C14	USGS40000139099	1/2 - 1 Mile East
C15	USGS40000139096	1/2 - 1 Mile East
C16	USGS40000139097	1/2 - 1 Mile East
C17	USGS40000139098	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	3948	1/4 - 1/2 Mile SE
A4	3916	1/2 - 1 Mile NE
6	3919	1/2 - 1 Mile North
B8	3960	1/2 - 1 Mile South
B9	3961	1/2 - 1 Mile South
B10	3964	1/2 - 1 Mile South
11	3946	1/2 - 1 Mile WNW
18	3949	1/2 - 1 Mile SE
19	3920	1/2 - 1 Mile WNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

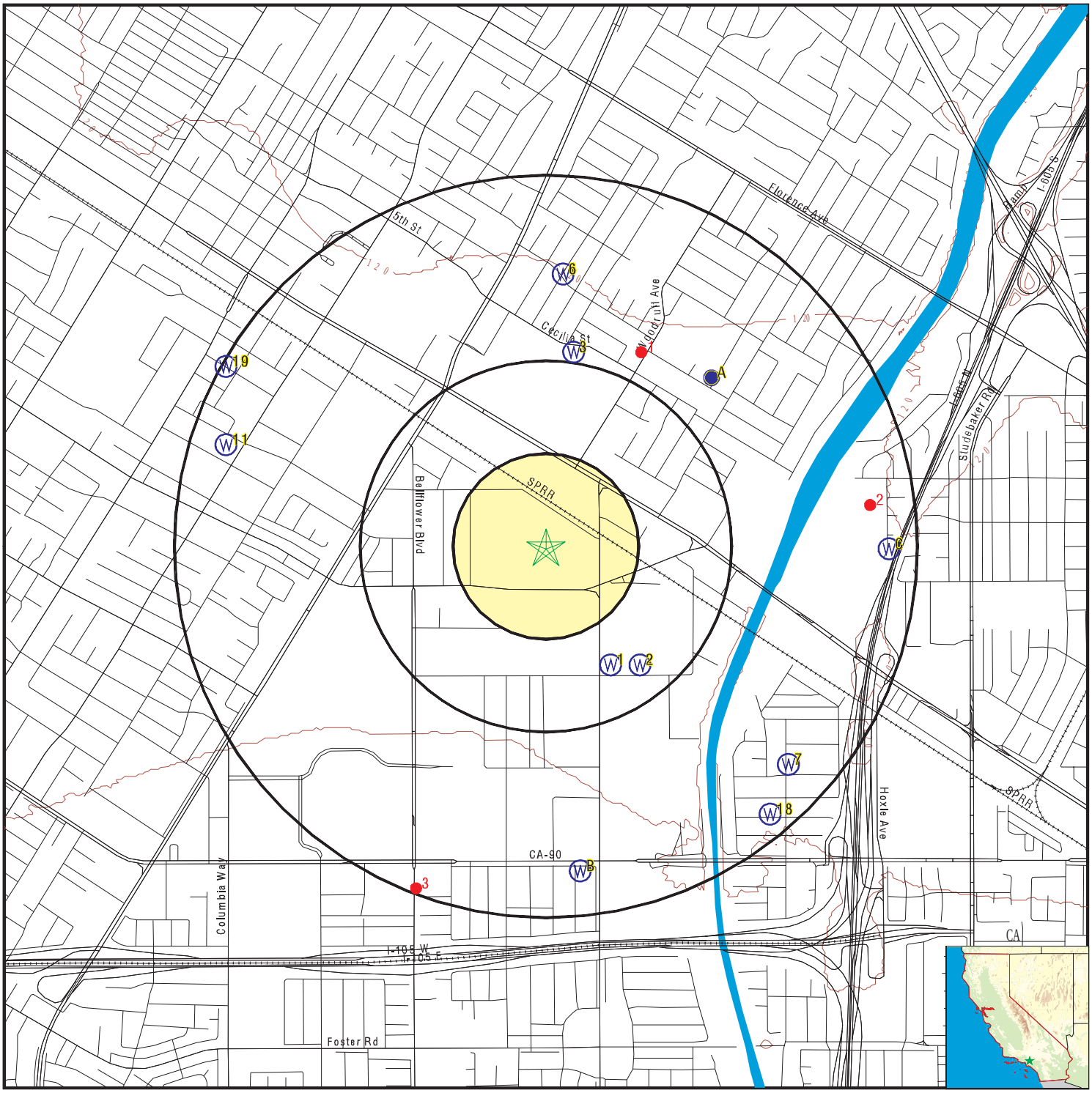
MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000205158	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	CAOG11000204569	1/2 - 1 Mile East
3	CAOG11000204628	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 04816690.2r



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	9300, 9350 and 9400 Hall Road	CLIENT:	SCS Engineers
ADDRESS:	9301, 9333 and 9399 Stewart & Gray Road Downey CA 90241	CONTACT:	Kim Braun
LAT/LONG:	33.929369 / 118.119214	INQUIRY #:	04816690.2r
		DATE:	December 29, 2016 2:14 pm

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE **FED USGS** **USGS40000139064**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335529118065501		
Monloc name:	003S012W11E001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9247366
Longitude:	-118.116179	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	544
Welldepth units:	ft	Wellholedepth:	544
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

2
SE **CA WELLS** **3948**
1/4 - 1/2 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-11E01 S	User ID:	4TH
FRDS Number:	1910034025	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335529.0 1180650.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 24 (OLD PWC WELL 08B)		
System Number:	1910034		
System Name:	DOWNEY - CITY, WATER DEPT.		
Organization That Operates System:			
	9252 Stewart & Gray Road		
	Downey, CA 90241		
Pop Served:	91000	Connections:	23000
Area Served:	DOWNEY		
Sample Collected:	21-FEB-13	Findings:	530. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	21-FEB-13	Findings:	0.5
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	21-FEB-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAR-15	Findings:	1.41 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAR-15	Findings:	1.65 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.16 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.45 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-AUG-15	Findings:	1.73 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-AUG-15	Findings:	1.85 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-DEC-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-DEC-15	Findings:	1.83 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-FEB-16	Findings:	67.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	23-FEB-16	Findings:	790. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	23-FEB-16	Findings:	7.76
Chemical:	PH, LABORATORY		
Sample Collected:	23-FEB-16	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	23-FEB-16	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	23-FEB-16	Findings:	2.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	23-FEB-16	Findings:	260. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	23-FEB-16	Findings:	78. MG/L
Chemical:	CALCIUM		
Sample Collected:	23-FEB-16	Findings:	17. MG/L
Chemical:	MAGNESIUM		

Sample Collected:	23-FEB-16	Findings:	61. MG/L
Chemical:	SODIUM		
Sample Collected:	23-FEB-16	Findings:	4.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	23-FEB-16	Findings:	69. MG/L
Chemical:	CHLORIDE		
Sample Collected:	23-FEB-16	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	23-FEB-16	Findings:	0.35 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	23-FEB-16	Findings:	530. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	23-FEB-16	Findings:	0.4
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	23-FEB-16	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	23-FEB-16	Findings:	2.5 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-FEB-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-NOV-11	Findings:	1.9 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-FEB-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	16.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	21-FEB-13	Findings:	800. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-FEB-13	Findings:	7.9
Chemical:	PH, FIELD		
Sample Collected:	21-FEB-13	Findings:	7.47
Chemical:	PH, LABORATORY		
Sample Collected:	21-FEB-13	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-FEB-13	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	84. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-FEB-13	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-FEB-13	Findings:	63. MG/L
Chemical:	SODIUM		

Sample Collected:	21-FEB-13	Findings:	4.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-FEB-13	Findings:	78. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-FEB-13	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	21-FEB-13	Findings:	0.36 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-FEB-13	Findings:	2.1 UG/L
Chemical:	ARSENIC		

3
North **FED USGS** **USGS40000139161**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335612118070101		
Monloc name:	003S012W03J001S		
Monloc type:	Well		
Monloc desc:	LA WATER REPLENISHMENT DIST GPS LAT-LONG		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9369642
Longitude:	-118.1179099	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	116
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19540321	Welldepth:	866
Welldepth units:	ft	Wellholedepth:	866
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A4
NE **CA WELLS** **3916**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	03S/12W-02L01 S	User ID:	4TH
FRDS Number:	1910034017	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335610.0 1180639.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 15 (OLD WELL 06)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 1910034
System Name: DOWNEY - CITY, WATER DEPT.
Organization That Operates System:
9252 Stewart & Gray Road
Downey, CA 90241
Pop Served: 91000 Connections: 23000
Area Served: DOWNEY

Sample Collected:	09-FEB-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-NOV-11	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-FEB-12	Findings:	16.6 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	22-FEB-12	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	22-FEB-12	Findings:	7.6
Chemical:	PH, FIELD		
Sample Collected:	22-FEB-12	Findings:	7.68
Chemical:	PH, LABORATORY		
Sample Collected:	22-FEB-12	Findings:	150. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	22-FEB-12	Findings:	250. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	71. MG/L
Chemical:	CALCIUM		
Sample Collected:	22-FEB-12	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	22-FEB-12	Findings:	65. MG/L
Chemical:	SODIUM		
Sample Collected:	22-FEB-12	Findings:	4.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	22-FEB-12	Findings:	78. MG/L
Chemical:	CHLORIDE		
Sample Collected:	22-FEB-12	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	22-FEB-12	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	22-FEB-12	Findings:	2.7 UG/L
Chemical:	ARSENIC		
Sample Collected:	22-FEB-12	Findings:	510. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	22-FEB-12	Findings:	0.11
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		

Sample Collected:	22-FEB-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	21-FEB-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-FEB-15	Findings:	810. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12-FEB-15	Findings:	7.43
Chemical:	PH, LABORATORY		
Sample Collected:	12-FEB-15	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	12-FEB-15	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12-FEB-15	Findings:	250. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	12-FEB-15	Findings:	72. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-FEB-15	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-FEB-15	Findings:	57. MG/L
Chemical:	SODIUM		
Sample Collected:	12-FEB-15	Findings:	3.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12-FEB-15	Findings:	83. MG/L
Chemical:	CHLORIDE		
Sample Collected:	12-FEB-15	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	12-FEB-15	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-FEB-15	Findings:	2.3 UG/L
Chemical:	ARSENIC		
Sample Collected:	12-FEB-15	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-FEB-15	Findings:	1.2
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	12-FEB-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-FEB-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	24-MAR-15	Findings:	1.68 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

Sample Collected:	24-MAR-15	Findings:	2.09 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.39 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.59 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-AUG-15	Findings:	1.55 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-AUG-15	Findings:	1.8 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-DEC-15	Findings:	1.48 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-DEC-15	Findings:	1.85 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-FEB-16	Findings:	2.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	23-FEB-16	Findings:	2.7 MG/L
Chemical:	NITRATE + NITRITE (AS N)		

A5
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000139157**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335609118064001		
Monloc name:	003S012W02L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9358056
Longitude:	-118.1111944	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510619	Welldepth:	840
Welldepth units:	ft	Wellholedepth:	860
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1951-07	86	

Note: Other conditions existed that would affect the measured water level.

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

6
North
1/2 - 1 Mile
Higher | **CA WELLS** | **3919**

Water System Information:

Prime Station Code:	03S/12W-03J01 S	User ID:	4TH
FRDS Number:	1910034018	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335624.0 1180703.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 16 (OLD WELL 10)		
System Number:	1910034		
System Name:	DOWNEY - CITY, WATER DEPT.		
Organization That Operates System:			
	9252 Stewart & Gray Road		
	Downey, CA 90241		
Pop Served:	91000	Connections:	23000
Area Served:	DOWNEY		
Sample Collected:	22-FEB-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	20-MAR-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAR-15	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-MAR-15	Findings:	7.51
Chemical:	PH, LABORATORY		
Sample Collected:	10-MAR-15	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	10-MAR-15	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-MAR-15	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	10-MAR-15	Findings:	83. MG/L
Chemical:	CALCIUM		
Sample Collected:	10-MAR-15	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-MAR-15	Findings:	70. MG/L
Chemical:	SODIUM		
Sample Collected:	10-MAR-15	Findings:	4.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-MAR-15	Findings:	87. MG/L
Chemical:	CHLORIDE		

Sample Collected:	10-MAR-15	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	10-MAR-15	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-MAR-15	Findings:	2.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	10-MAR-15	Findings:	530. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-MAR-15	Findings:	0.86
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	10-MAR-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAR-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-MAR-15	Findings:	3000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-MAR-15	Findings:	2.5 UNITS
Chemical:	COLOR		
Sample Collected:	24-MAR-15	Findings:	1.34 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAR-15	Findings:	2.25 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.15 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.62 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-AUG-15	Findings:	1.38 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-AUG-15	Findings:	1.94 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-DEC-15	Findings:	1.97 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-DEC-15	Findings:	2.01 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-FEB-16	Findings:	2.4 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	23-FEB-16	Findings:	2.4 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-FEB-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-12	Findings:	17.2 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	22-FEB-12	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		

Sample Collected:	22-FEB-12	Findings:	7.7
Chemical:	PH, FIELD		
Sample Collected:	22-FEB-12	Findings:	7.74
Chemical:	PH, LABORATORY		
Sample Collected:	22-FEB-12	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	22-FEB-12	Findings:	240. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	22-FEB-12	Findings:	66. MG/L
Chemical:	CALCIUM		
Sample Collected:	22-FEB-12	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	22-FEB-12	Findings:	64. MG/L
Chemical:	SODIUM		
Sample Collected:	22-FEB-12	Findings:	4.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	22-FEB-12	Findings:	84. MG/L
Chemical:	CHLORIDE		
Sample Collected:	22-FEB-12	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	22-FEB-12	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	22-FEB-12	Findings:	2.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	22-FEB-12	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	22-FEB-12	Findings:	0.21
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	22-FEB-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		

7
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000139019**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335515118062501		
Monloc name:	003S012W11K006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.9208477
Longitude:	-118.1078454	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	500
Welldepth units:	ft	Wellholedepth:	527
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

B8
South **CA WELLS** **3960**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-14F01 S	User ID:	4TH
FRDS Number:	1910211016	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	335500.0 1180700.0	Precision:	Undefined
Source Name:	WELL 28-B - STANDBY		
System Number:	1910211		
System Name:	PARK WC - BELLFLOWER-NORWALK		
Organization That Operates System:			
	PO BOX 7002 (9750 WASHBURN RD) DOWNEY, CA 90241		
Pop Served:	70000	Connections:	15837
Area Served:	BELLFLOWER-NORWALK		
Sample Collected:	26-SEP-12	Findings:	0.12 UG/L
Chemical:	PROMETON		
Sample Collected:	09-OCT-12	Findings:	4.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-13	Findings:	5.4 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-APR-13	Findings:	2.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-APR-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-13	Findings:	3.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-APR-13	Findings:	0.542 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	25-APR-13	Findings:	0.254 PCI/L
Chemical:	RADIUM 228 MDA95		

Sample Collected:	25-APR-13	Findings:	0.22 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	25-APR-13	Findings:	0.439 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	25-APR-13	Findings:	0.258 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	25-APR-13	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-MAY-13	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-OCT-13	Findings:	3.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-14	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-14	Findings:	3.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-JUN-14	Findings:	0.35 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	16-OCT-14	Findings:	3.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	07-MAY-15	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07-MAY-15	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	07-MAY-15	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	07-MAY-15	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07-MAY-15	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	07-MAY-15	Findings:	85.4 MG/L
Chemical:	CALCIUM		
Sample Collected:	07-MAY-15	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07-MAY-15	Findings:	65. MG/L
Chemical:	SODIUM		
Sample Collected:	07-MAY-15	Findings:	4.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07-MAY-15	Findings:	77. MG/L
Chemical:	CHLORIDE		
Sample Collected:	07-MAY-15	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	07-MAY-15	Findings:	4.7 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

Sample Collected:	07-MAY-15	Findings:	2.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	07-MAY-15	Findings:	7.9e-002 MG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	07-MAY-15	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-MAY-15	Findings:	1.03
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07-MAY-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-15	Findings:	12.4
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	07-MAY-15	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	07-MAY-15	Findings:	3.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-JUN-15	Findings:	0.31 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-APR-11	Findings:	2.1 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-APR-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-APR-11	Findings:	3.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	20-OCT-11	Findings:	3.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	12-APR-12	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12-APR-12	Findings:	7.59
Chemical:	PH, LABORATORY		
Sample Collected:	12-APR-12	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	12-APR-12	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12-APR-12	Findings:	290. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	12-APR-12	Findings:	87. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-APR-12	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-APR-12	Findings:	64. MG/L
Chemical:	SODIUM		
Sample Collected:	12-APR-12	Findings:	4.3 MG/L
Chemical:	POTASSIUM		

Sample Collected:	12-APR-12	Findings:	76. MG/L
Chemical:	CHLORIDE		
Sample Collected:	12-APR-12	Findings:	130. MG/L
Chemical:	SULFATE		
Sample Collected:	12-APR-12	Findings:	4.4 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-APR-12	Findings:	2.1 UG/L
Chemical:	ARSENIC		
Sample Collected:	12-APR-12	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-APR-12	Findings:	0.822
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12-APR-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-APR-12	Findings:	12.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	12-APR-12	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-APR-12	Findings:	3.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	06-JUN-12	Findings:	0.46 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

B9
South **CA WELLS** **3961**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-14F02 S	User ID:	4TH
FRDS Number:	1910018012	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	335500.0 1180700.0	Precision:	Undefined
Source Name:	WELL 14 - STANDBY		
System Number:	1910018		
System Name:	PEERLESS WC		
Organization That Operates System:			
	P O BOX 117		
	BELLFLOWER 90706		
Pop Served:	9000	Connections:	2005
Area Served:	BELLFLOWER		

B10
South **CA WELLS** **3964**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-15A03 S	User ID:	4TH
FRDS Number:	1910211015	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	335500.0 1180700.0	Precision:	Undefined
Source Name:	WELL 28-A - DESTROYED		

System Number: 1910211
System Name: PARK WC - BELLFLOWER-NORWALK
Organization That Operates System:
PO BOX 7002 (9750 WASHBURN RD)
DOWNEY, CA 90241
Pop Served: 70000 Connections: 15837
Area Served: BELLFLOWER-NORWALK

11
WNW
1/2 - 1 Mile
Higher

CA WELLS **3946**

Water System Information:

Prime Station Code:	03S/12W-10C03 S	User ID:	4TH
FRDS Number:	1910211009	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	335600.0 1180800.0	Precision:	Undefined
Source Name:	WELL 08-A - DESTROYED		
System Number:	1910211		
System Name:	PARK WC - BELLFLOWER-NORWALK		
Organization That Operates System:	PO BOX 7002 (9750 WASHBURN RD) DOWNEY, CA 90241		
Pop Served:	70000	Connections:	15837
Area Served:	BELLFLOWER-NORWALK		

C12
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000139100**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061105		
Monloc name:	003S012W11A011S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	500
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C13
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000139101**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061106		
Monloc name:	003S012W11A012S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	256
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C14
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000139099**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061104		
Monloc name:	003S012W11A010S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	820
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C15
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000139096**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061101		
Monloc name:	003S012W11A007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	1480
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C16
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000139097**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061102		
Monloc name:	003S012W11A008S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	1280
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C17
East **FED USGS** **USGS40000139098**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-335545118061103		
Monloc name:	003S012W11A009S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.929275
Longitude:	-118.1031278	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	115
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20061128	Welldepth:	980
Welldepth units:	ft	Wellholedepth:	1502
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

18
SE **CA WELLS** **3949**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-11K06 S	User ID:	4TH
FRDS Number:	1910211026	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335508.0 1180628.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 41-A		
System Number:	1910211		
System Name:	PARK WC - BELLFLOWER-NORWALK		
Organization That Operates System:			
	PO BOX 7002 (9750 WASHBURN RD)		
	DOWNEY, CA 90241		
Pop Served:	70000	Connections:	15837
Area Served:	BELLFLOWER-NORWALK		

Sample Collected:	19-MAY-16	Findings:	0.341 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	19-MAY-16	Findings:	0.525 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	19-MAY-16	Findings:	0.47 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	19-MAY-16	Findings:	0.253 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	19-MAY-16	Findings:	2.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	19-MAY-16	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	19-MAY-16	Findings:	0.163 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-MAY-16	Findings:	1.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-MAY-16	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	19-MAY-16	Findings:	4.e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-APR-11	Findings:	660. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-APR-11	Findings:	7.69
Chemical:	PH, LABORATORY		
Sample Collected:	21-APR-11	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	21-APR-11	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-APR-11	Findings:	230. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	21-APR-11	Findings:	68. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-APR-11	Findings:	13. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-APR-11	Findings:	62. MG/L
Chemical:	SODIUM		
Sample Collected:	21-APR-11	Findings:	3.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-APR-11	Findings:	79. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-APR-11	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	21-APR-11	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

Sample Collected:	21-APR-11	Findings:	490. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-APR-11	Findings:	0.792
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	21-APR-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-APR-11	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	21-APR-11	Findings:	12.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	21-APR-11	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	21-APR-11	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	20-OCT-11	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	12-APR-12	Findings:	0.39 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-APR-12	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-APR-12	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	09-OCT-12	Findings:	1.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-13	Findings:	0.37 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-APR-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-13	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	17-APR-14	Findings:	790. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	17-APR-14	Findings:	7.46
Chemical:	PH, LABORATORY		
Sample Collected:	17-APR-14	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	17-APR-14	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	17-APR-14	Findings:	250. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	17-APR-14	Findings:	76.4 MG/L
Chemical:	CALCIUM		
Sample Collected:	17-APR-14	Findings:	14.9 MG/L
Chemical:	MAGNESIUM		

Sample Collected:	17-APR-14	Findings:	68. MG/L
Chemical:	SODIUM		
Sample Collected:	17-APR-14	Findings:	4.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	17-APR-14	Findings:	85. MG/L
Chemical:	CHLORIDE		
Sample Collected:	17-APR-14	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	17-APR-14	Findings:	0.3 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-APR-14	Findings:	480. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-APR-14	Findings:	0.599
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	17-APR-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-14	Findings:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	17-APR-14	Findings:	2700. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	17-APR-14	Findings:	1.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	13-NOV-14	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	09-APR-15	Findings:	0.27 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-APR-15	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-15	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		

19
WNW
1/2 - 1 Mile
Higher

CA WELLS **3920**

Water System Information:

Prime Station Code:	03S/12W-03M01 S	User ID:	4TH
FRDS Number:	1910034021	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	335611.0 1180800.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 19 (OLD WELL 01)		
System Number:	1910034		
System Name:	DOWNEY - CITY, WATER DEPT.		
Organization That Operates System:			
	9252 Stewart & Gray Road		
	Downey, CA 90241		
Pop Served:	91000	Connections:	23000
Area Served:	DOWNEY		

Sample Collected:	17-FEB-11	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-NOV-11	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-FEB-12	Findings:	9.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	15.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	21-FEB-13	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-FEB-13	Findings:	7.8
Chemical:	PH, FIELD		
Sample Collected:	21-FEB-13	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	21-FEB-13	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-FEB-13	Findings:	310. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	21-FEB-13	Findings:	94. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-FEB-13	Findings:	19. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-FEB-13	Findings:	64. MG/L
Chemical:	SODIUM		
Sample Collected:	21-FEB-13	Findings:	4.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-FEB-13	Findings:	82. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-FEB-13	Findings:	140. MG/L
Chemical:	SULFATE		
Sample Collected:	21-FEB-13	Findings:	0.39 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-FEB-13	Findings:	2.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	21-FEB-13	Findings:	570. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-FEB-13	Findings:	0.48
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	21-FEB-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-13	Findings:	0.52 NTU
Chemical:	TURBIDITY, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-FEB-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-FEB-14	Findings:	9.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-15	Findings:	8.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAR-15	Findings:	1.81 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAR-15	Findings:	2.13 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-15	Findings:	1.42 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-15	Findings:	1.56 PCI/L
Chemical:	GROSS ALPHA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
NNE **OIL_GAS** **CAOG11000205158**
1/2 - 1 Mile

District nun:	1	Api number:	03706170
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Union Oil Company of California		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	2
Township:	03S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Downey Community	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205158		

2
East **OIL_GAS** **CAOG11000204569**
1/2 - 1 Mile

District nun:	1	Api number:	03705280
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L. B. Chase Oil Co.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	11
Township:	03S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000204569		

3
SSW **OIL_GAS** **CAOG11000204628**
1/2 - 1 Mile

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

District nun:	1	Api number:	03705362
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Downey Land Co.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	15
Township:	03S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Downey Land Co.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204628		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90241	14	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

APPENDIX G

RESUMES OF PROJECT PERSONNEL

ASHLEY P. HUTCHENS, REPA, CESCO

Education

BS – Environmental Science (emphasis in Biology), Minor in Chemistry, University of North Carolina, Wilmington, 2000

Professional Licenses

Registered Environmental Property Assessor (REPA) (No. 940424)
Certified Environmental and Safety Compliance Officer (CESCO), National Registry of Environmental Professionals (No. 130958)

Specialty Certifications

OSHA 40-Hour Health and Safety Training for Hazardous Waste Workers
OSHA 8-Hour Hazardous Waste Supervisor Training
8-Hour Annual Refresher Training for Hazardous Waste Site Activities
First-Aid and CPR Training
Leadership Skills to Enhance Client Service

Professional Affiliations

Professional Environmental Marketing Association (PEMA), Member (2011 to Present)
Association for Environmental Health of Soils, Member (2015 to Present)
National Ground Water Association (NGWA), Member (2012)

Professional Experience

Since joining SCS in 2001, Ms. Hutchens has participated in hundreds of site assessment projects related to the investigation and remediation of hazardous chemicals in soils and groundwater. She has a diverse background in environmental sciences, including technical skills related to the collection of soil samples, knowledge of soil classifications and properties, data collection, and analysis and interpretation. As a Project Manager, her work experience includes all project phases, from the development of cost estimates for various site assessment and cleanup programs, to groundwater monitoring and sampling, the preparation of final reports, interfacing with regulatory agencies, and management of all aspects of projects and various subcontractors.

Selected project activities include:

- Involvement with numerous Phase I Environmental Site Assessments (ESAs) completed in accordance with various lender, American Society for Testing and Materials (ASTM), or government guidelines. Activities consisted of evaluating current and past on-site operations, generating historical property use information, identifying potentially contaminated sites in the surrounding areas, reviewing previous reports and/or files maintained by regulatory agencies, and developing conclusions regarding the presence of Recognized Environmental Conditions (RECs) and recommendations for further investigation.

- Involvement with numerous investigations of known or suspected hazardous waste sites to identify and characterize chemicals of concern in soil, soil vapor, and groundwater in accordance with regulatory requirements. Contaminants include a variety of hydrocarbon products, solvents, heavy metals, polychlorinated biphenyls, and pesticides. Activities included preparation of workplans, conduct of soil gas surveys, installation of soil borings and subsequent sampling, and evaluation of applicable remedial alternatives.

- Groundwater well installation and monitoring. Projects involved collection of soil and groundwater samples, installation and development of groundwater wells, evaluation of subsurface contaminants in groundwater in accordance with regulatory requirements or generally accepted guidelines, and evaluation of groundwater remediation alternatives.

- Involvement with numerous soil gas surveys to assess the presence, nature, and extent of volatile organic compounds (VOCs) and/or methane related to contaminated soils, groundwater, and/or landfills. Elements of these projects included assessments of vapor intrusion, protection of structures from subsurface gases, monitoring of indoor air, and health risk assessments (HRAs).

- Numerous projects related to the removal, investigation, and remediation of contamination leaking from underground storage tanks (USTs). In accordance with requirements of the various regulatory agencies throughout Southern California, these UST projects have included soil, soil gas, and groundwater contamination, and such tasks as evaluation of site and regional hydrogeologic conditions; development of workplans and health and safety plans; coordination and completion of tank removals; design of investigative programs; review and selection of potential remedial alternatives; and preparation of summary reports of findings.

- Oversight of projects involving installation of landfill gas mitigation systems and monitoring wells, including lithologic logging and design quality assurance (QA) at numerous landfills across Southern California.

- Characterization of hazardous waste materials, including collection of soil and/or liquid samples to profile waste materials, interpretation of laboratory results, and evaluation of disposal/recycling options to minimize costs and liabilities to clients associated with the removal of wastes.

- Planning, coordination, and supervision of remedial actions that included excavation, transport, and disposal of contaminated soils. Work has included preparation of Remedial Action Plans (RAPs), direction of confirmatory sampling, and interfacing with regulatory agencies.

Project Management

Assessment and Remediation of Numerous Former Dry Cleaning Facilities, Los Angeles and Orange Counties, CA. Investigations were completed at numerous active and former dry

cleaning facilities to assess the potential for releases of solvents. As Project Manager, Ms. Hutchens conducted various investigations that included soil vapor assessments, collection of bulk soil samples, groundwater well installation and monitoring, indoor air sampling, and evaluation of indoor air intrusion risks. Additional evaluations were completed to define the extent of the plume and obtain information to evaluate remedial alternatives. Implemented remedial measures included excavation, soil vapor extraction (SVE), monitored natural attenuation (MNA), in situ groundwater remediation, and risk management. One project included installation of an interim vapor intrusion control system (IVICS), which was installed to introduce sub-slab depressurization to reduce indoor air intrusion risks from a former dry cleaner release. The IVICS was installed on an immediate basis at the request of the client until further investigation could be conducted for design of a full-scale remediation system. Ms. Hutchens coordinated and permitted investigation and remediation efforts through the various regulatory oversight agencies.

Investigation and Remediation for Industrial Facility Redevelopment, Commerce, CA. SCS conducted a series of environmental assessments, investigations, and remedial activities that provided sufficient information to identify the environmental issues, and business risks to facilitate the client's successful purchase of property for redevelopment to a commercial warehouse and office. A number of RECs, including former and an existing unpermitted underground fuel storage tanks, were identified. As Project Manager, Ms. Hutchens managed activities conducted concurrently with the redevelopment of the property that included shallow and deep soil along with soil vapor investigations; installation of groundwater monitoring wells and subsequent groundwater sampling; permitting and removal of an existing UST; subsequent remedial excavation under the oversight of the Los Angeles County Fire Department (LACFD) to obtain closure; shallow excavation of the former UST area; installation of SVE and monitoring wells conducted concurrently with redevelopment of the property; SVE under Regional Water Quality Control Board (RWQCB) oversight; and requesting and receiving closure under the Low-Threat UST Case Closure Policy (LTCP) through the State Water Resources Control Board (SWRCB).

Retired Housing Foundation, Site Investigation and Remedial Activities, Los Angeles, CA. As follow-up to a Phase I ESA performed on the property, soil and soil vapor investigations were completed to assess the potential for releases of heavy metals and VOCs based on historical operations at the property. As Project Manager, Ms. Hutchens managed investigation activities that indicated elevated tetrachloroethylene (PCE) and lead in the subsurface exceeding regulatory guidelines. Remediation of the lead-impacted soils was conducted under LACFD oversight. An evaluation of the health risk from PCE in the subsurface was conducted and submitted to the LACFD. Site closure with respect to PCE and lead in the subsurface was approved by LACFD, facilitating the client's submittal for funding and the subsequent construction of the retirement housing development.

Due Diligence Investigations of Manufacturing Facility, Torrance, CA. SCS conducted a series of assessments, including a Phase I ESA, various Phase II investigations, and remedial activities that provided sufficient information to identify the environmental issues and business risks and to facilitate the client's successful sale of the property. A number of RECs, including former and existing underground fuel storage tanks, a machine shop, wastewater treatment sumps and a clarifier, chemical storage, and chlorinated solvent degreasing operations, were identified. As

Project Manager, Ms. Hutchens managed activities that included shallow and deep soil and soil vapor investigations, groundwater sampling, a geophysical survey and excavations to find an existing diesel UST previously closed in place, removal of the UST, remedial excavations under Torrance Fire Department oversight to obtain UST closure, a workplan submitted to the Los Angeles RWQCB, installation of an SVE system and monitoring wells, a long-term SVE pilot test, an SVE Pilot Test Report, and recommendations for further SVE.

City of El Monte, Environmental Investigations, Methane Monitoring, and Remedial Action, El Monte, CA. SCS conducted several phases of work for the redevelopment of property in El Monte, a portion of which overlies a former burn dump. SCS worked with the Department of Toxic Substances Control (DTSC) to obtain and implement an approved Remedial Action Workplan (RAW), which required a public comment period and California Environmental Quality Act (CEQA) review to allow redevelopment of the property for residential use. As Project Manager, Ms. Hutchens applied for a permit to excavate the former burn dump with the South Coast Air Quality Management District (SCAQMD) on behalf of the owner and developer of the site. With the permit in place, SCS provided oversight of excavation activities as development activities commenced. In addition, methane monitoring was conducted to monitor for the presence of methane as a result of the former dumping activities. Ms. Hutchens prepared a Remedial Action Completion Report (RACR) and worked with DTSC to get closure for portions of the property that will undergo development in the near future. Ms. Hutchens continues to work with the Lead Enforcement Agency (LEA) and the California Department of Resources Recycling and Recovery (CalRecycle) to provide long-term probe monitoring for the network, to observe the former dump area after the development is complete.

Environmental Property Evaluation, Whitewright, TX. As Project Manager, Ms. Hutchens conducted an evaluation of the blast pressure that may have resulted from an accidental explosion of ammonium nitrate stored at a facility near a proposed multi-family housing complex. The evaluation was conducted to determine if the proposed housing site would be affected by such an explosion. The evaluation included review of Housing and Urban Development (HUD) guidelines to meet separation distance standards and other state/local multifamily rules, ammonium nitrate explosion and trinitrotoluene (TNT) equivalent evaluation, and calculation of the blast zone radius.

Health and Safety

Ms. Hutchens has participated in a certified health and safety program in compliance with OSHA Standard 29 CFR 1910.120. She is knowledgeable in incident response operations, team functions, personnel safety, and field equipment. She is able to recognize and evaluate potential chemical and physical hazards associate risks in field operations; discuss and use Personal Protective Equipment (PPE), such as respiratory protection and protective clothing; use and interpret direct-reading instruments; and examine and establish Standard Operating Safety Guidelines (SOSG) to ensure safe and effective response operations.

KEVIN W. GREEN, PG

Education

BS – Marine Biology, California State University, Long Beach, 1978

Professional Licenses

Professional Geologist – California, 1994 (No. 5906)
Professional Geologist – Wyoming, 2009 (No. PG-3702)

Professional Affiliations

National Ground Water Association
Groundwater Resources Association of California
Association for Environmental Health and Sciences

Professional Experience

Mr. Green has a background in geology and paleontology. Since joining SCS in 1987, he has participated in numerous projects related to the investigation and remediation of hazardous chemicals in soils and groundwater. As a Vice President and Project Director, he currently serves as the Environmental Services Leader for the Long Beach and Las Vegas offices. Selected project activities include:

- Mr. Green has been Project Manager for more than a thousand Phase I Environmental Site Assessments (ESAs). These projects were completed in accordance with various lenders, the American Society for Testing and Materials (ASTM), or government guidelines, and consisted of evaluating current on-site operations, generating historical property use information, identifying potentially contaminated sites in the surrounding areas, reviewing previous reports and/or files maintained by regulatory agencies, and developing conclusions and recommendations regarding the presence of Recognized Environmental Conditions and further investigation. Project sites have varied from private single-use parcels to hundreds of properties involving multiple tenants associated with state and local government right-of-way improvements.

- Mr. Green has conducted hundreds of investigations of known or suspected hazardous waste sites to identify and characterize chemicals of concern in soil, soil vapor, and groundwater in accordance with regulatory requirements. Contaminants include a variety of hydrocarbon products, solvents, heavy metals, polychlorinated biphenyls (PCBs), and pesticides. Regulatory oversight agencies include the US Environmental Protection Agency (EPA), Department of Toxic Substances Control (DTSC), and various Regional Water Quality Control Boards (RWQCBs), County Health or Fire Departments, and city Certified Unified Program Agencies (CUPAs).

- Mr. Green has been Project Manager for numerous soil gas surveys utilized to assess the presence, nature, and extent of volatile organic compounds (VOCs) and/or methane related to contaminated soils, groundwater, and/or landfills. Elements of

these projects have included assessments of vapor intrusion, protection of structures from subsurface gases, monitoring of indoor air, and health risk assessments (HRAs).

- Mr. Green has managed numerous projects related to the removal, investigation, and remediation of contamination from leaking underground storage tanks (LUSTs). In accordance with requirements of the various regulatory agencies throughout Southern California, these LUST projects have included soil, soil gas, and groundwater contamination, and tasks such as evaluation of site and regional hydrogeologic conditions; development work plans and health and safety (H&S) plans; coordination and execution of tank removals; design of the investigative programs; review and selection of potential remedial alternatives; preparation of summary reports of findings; support of legal counsel in cost recovery actions; and support of client in cost recovery actions with the California Underground Storage Tank (UST) Cleanup Fund.

- Mr. Green has been the Project Manager for numerous remediation projects involving various hydrocarbon products, pesticides, chlorinated solvents, and/or heavy metals. Remediation projects included the excavation and disposal of soils; on- and off-site treatment of soils; recovery and treatment/disposal of free product and groundwater; and the design, installation, and operation of vapor extraction systems for soil and groundwater contaminated with VOCs.

- Mr. Green has evaluated environmental conditions at sanitary landfills. As Task Manager, he managed the installation and sampling of groundwater monitoring wells at and adjacent to existing landfills to determine the presence of leachate. This work was done in accordance with state regulations and local ordinances.

- Mr. Green was Project Manager for numerous lead-based paint (LBP) surveys and abatement projects for single- and multifamily residential developments, and commercial and public buildings. These projects consist of determining paint and/or dust sampling methodologies; interpretation of testing results; evaluation and recommendations for appropriate LBP hazards abatement; development of LBP abatement specifications; coordination and selection of licensed LBP abatement subcontractors; collection and analysis of abatement confirmation samples; characterization of waste materials; and preparation of summary reports documenting LBP surveys and the appropriate removal and disposal of LBP-related hazards.

- As a committee member, Mr. Green developed the initial ASTM standard guide (E2600) for vapor encroachment screening on property involved in real estate transactions. He has a decade of experience in evaluating the potential for vapor encroachment and vapor intrusion, along with the methods and protocols for investigation and/or mitigation of buildings affected by known or suspected contamination by VOCs.

- Mr. Green provides expert testimony and research support for litigation related to ESAs, and the investigation and remediation of hazardous waste sites.

His project experience is summarized below.

Vapor Extraction Assessment and Remediation of Former Industrial Dry Cleaning Facility. As Project Manager, Mr. Green's tasks included initial indoor air assessment for Proposition 65 compliance; coordination of equipment, subcontractors, and personnel for the installation of vapor extraction and monitoring wells, header lines, and vapor extraction system (VES), including acid "scrubber" for treated vapors, treatment pad and enclosure, electrical power, natural gas, water supply and wastewater discharge; city, county, and Air Quality Management District (AQMD) permits; operation and maintenance (O&M) of VES; regulatory reporting; and decommissioning of VES upon regulatory closure.

Community Redevelopment Agency of the City of Los Angeles (CRA/LA), General Environmental Consulting Services, Los Angeles, CA. As Project Director with almost 200 work order directives for services over an approximately 20-year period, Mr. Green provided the initial site assessments, asbestos-containing material (ACM) surveys, LBP surveys, soil gas surveys, soils investigations, groundwater investigations, remedial and abatement activities for soils, asbestos, and LBP, second-party reviews of reports and work completed by other environmental consultants, UST removals, groundwater well abandonment, Brownfields consulting, and an environmental audit of hazardous materials handling practices of the client's operations. The projects were completed on vacant, former oil field, residential, commercial, industrial, and manufacturing properties ranging in size from a single lot to a 29-block mixed-use area. In addition to ACMs and LBP, the identified constituents of concern included a variety of petroleum hydrocarbon (TPH) products, chlorinated solvents, heavy metals, PCBs, pesticides, and subsurface combustible gases such as methane and VOCs.

Brownfields Redevelopment Site, Los Angeles, CA. As Project Director, Mr. Green completed several phases of environmental services to facilitate the mixed-use redevelopment of property for a parking garage, childcare center, and affordable housing. Historical machine shop operations resulted in a release of tetrachloroethylene (PCE) to soils. Although some cleanup was conducted in the early 1990s, residual PCE contamination remained. In accordance with current standards and with the proposed goal of affordable housing and childcare center, SCS re-investigated the site under the oversight of the Los Angeles RWQCB. Services provided for this project included investigations of soil and soil gas, HRA and selection of remedial and mitigation options, design of vapor barrier to protect the building from chlorinated solvents, coordination and oversight of remedial excavation, oversight and certification for installation of a sub-building vapor barrier, post-construction monitoring of indoor, background, and sub-slab air to confirm that remediation and mitigation measures have met regulatory goals, and coordination of a No Further Action (NFA) letter from the regulatory authority.

Due Diligence Investigations of Manufacturing Facility, Torrance, CA. As Project Director, Mr. Green conducted a series of environmental assessments, investigations, and remedial activities that provided sufficient information to identify environmental issues and business risks and to facilitate the client's successful sale of property. A number of recognized environmental conditions, including former and existing USTs, a machine shop, wastewater treatment sumps and clarifier, paint shop, chemical storage, and chlorinated solvent degreasing operations were identified. Project activities included shallow and deep soil and soil vapor extraction (SVE) investigations, followed by groundwater sampling; geophysical survey and excavations to find

an existing diesel UST previously closed in-place; removal of the UST; remedial excavations under Torrance Fire Department oversight to obtain closure; a long-term SVE pilot test, including a work plan submitted to the Los Angeles RWQCB; installation of SVE and monitoring wells; and development of an SVE Pilot Test Report, and recommendations for further SVE.

Investigation, Abatement, and Subsequent Demolition, Resource, Conservation and Recovery Act (RCRA), CA. Lead-containing dust from a shooting range was found to have contaminated building materials and soils. As Project Manager, Mr. Green was involved the selection of remedial methods and contractors, monitoring of workers to assess exposure to lead-containing dust, monitoring of dust emissions during demolition to confirm compliance, confirmation sampling and analyses, characterization of wastes for disposal, and submittal of a summary report documenting the appropriate remediation and disposal of lead-containing wastes. Efforts were as part of the RCRA for facility closure under the oversight of the California DTSC.

Investigation and Remediation, CA. Chemicals of concern at the former wood treating facility included pentachlorophenol, creosote, diesel fuel, methylene chloride, zinc, copper, and arsenic. As Project Director, Mr. Green managed the Remedial Investigation/Feasibility Study (RI/FS) report for vadose zone soil, including an HRA; Remedial Action Plan (RAP) for impacted soil, which recommended capping as the most feasible remedial alternative; a cone penetrometer (CPT) study aimed at further defining site stratigraphy, evaluating for the presence of nonaqueous phase liquids, and mapping the areal distribution of chemicals of concern; quarterly groundwater monitoring from 16 wells; Storm Water Pollution Prevention Plan (SWPPP) and monitoring; and assistance to client in development and/or sale of the property. The work was done under the oversight of the California DTSC.

Well Investigation Program Compliance. As Project Manager, Mr. Green conducted a well investigation provided to the USEPA to identify Potentially Responsible Parties (PRPs) for the San Fernando Valley Superfund site. On-site operations included 14 USTs; numerous clarifiers, sumps, and drain lines; plating, machining, and painting shops; a jet engine test facility; and solvent, alkaline, and steam cleaning facilities. Approximately 70 exploratory soil borings were drilled and analyzed for chlorinated solvents, heavy metals, cyanide, and various hydrocarbon products, such as gasoline, machining and waste oils, Stoddard solvent, and jet fuel. A soil gas survey of the facility was also conducted to screen for potential contamination by VOCs, including the installation of multi-depth, nested soil vapor monitoring wells. Fate and transport modeling of chlorinated solvents was used to assess the potential for impacts to groundwater. The work was done under RWQCB oversight at a jet engine repair, maintenance, and testing facility. The RWQCB issued an NFA letter for the investigation and remediation of chlorinated solvents at the site. The project also included design, permitting, construction, and O&M of a hot air-assisted SVE system to remediate Jet A-impacted soils. After 1 year of operation, remediation was sufficient to obtain closure with no further requirements from the RWQCB. Furthermore, as a part of the decommissioning and demolition of the facility, a comprehensive survey for ACMs in nine buildings was conducted. SCS prepared plans and specifications for the abatement of ACMs, assisted the client in selection of an abatement contractor, conducted daily oversight of abatement activities, including air monitoring, and prepared a final report documenting the appropriate removal and disposal of ACMs.

Historical Industrial Site Redevelopment and Closure. Prior to acquisition of this property, Mr. Green, as Project Director, conducted a due diligence assessment and several phases of investigation to identify recognized environmental conditions, characterize the nature and extent of contamination, evaluate costs and environmental liabilities, and facilitate the client's successful purchase of the property. Following the acquisition, and as a part of site redevelopment and thereafter, SCS provided additional site characterization and remediation services under regulatory oversight and with closure. Project activities, conducted concurrently with property redevelopment, included:

- Shallow and deep soil and soil vapor investigations for due diligence purposes.
- Oil well abandonment under California Division of Oil, Gas and Geothermal Resources (DOGGR) oversight.
- Permitting and removal of an existing UST and remedial excavation under Los Angeles County Department of Public Works (LACDPW) oversight.
- Under RWQCB oversight, shallow soil excavation of a former UST area, installation and operation of a separate SVE system for deeper soil contamination, and installation and monitoring of groundwater wells.

SCS met with the RWQCB on several occasions to make a case for closure under the State Water Quality Control Board's (SWQCB's) Low-Threat UST Case Closure Policy. Upon completion of a closure investigation in October 2013, and a subsequent meeting to defend the case for closure, the RWQCB concurred with SCS's conclusions and approved the closure process under the Low-Threat Policy. Following SVE and well abandonment activities, the RWQCB issued an NFA letter for the property in July 2014.

Mr. Green has participated in a certified health and safety program in compliance with Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1910.120. He provided his expertise in the incident response operations, team functions, personnel safety, and field equipment. He was able to recognize and evaluate potential chemical and physical hazards and associated risks in field operations; discuss and use personnel protective equipment such as respiratory protection and protective clothing; use and interpret direct-reading instruments; and examine and establish Standard Operating Safety Guidelines to ensure safe and effective response operations.

Mr. Green has been involved in numerous SCS projects related to hazardous waste characterization and management. He has experience in ESA studies, UST investigations and their associated remediation programs, landfill studies, and geologic and hydrogeologic site characterization studies. His work experience includes all project phases from development of cost estimates for various site assessment and cleanup programs, to groundwater monitoring and sampling, to preparation of final reports and interfacing with regulatory agencies.

Litigation Support/Expert Testimony

Mr. Green has provided litigation support and expert testimony to legal counsel, including conducting research, and preparing reports and other supporting documents, in the following environmental cases:

- In August 2013, Mr. Green provided testimony in federal court on behalf of the plaintiff in City of Banning v. Dureau et al., regarding the contractor's emergency response to a waste oil spill that entered the storm drain system. Testimony related to investigative and remedial actions and the applicability of, and compliance with, the National Contingency Plan (NCP). The case was won by the City of Banning, California.

- In October 2012, Mr. Green was retained as an expert witness by the defendant in Clipper Yacht Company, LLC v. Anderson's Boat Yard, Inc., to review documents, consult with legal counsel, and provide expert opinions at deposition and trial regarding contamination at a boat yard and associated marina in Sausalito, California. Specific topics of interest include the adequacy of previous investigations and remediation efforts, the sources of contamination (particularly copper), cleanup levels, and likelihood and estimated costs of additional remediation. This case was settled prior to trial.

- In August 2011, as part of the new property owner's litigation against the former tenant (Alfaville, LLC v. L.A. Signal, Inc.), Mr. Green provided testimony as a percipient witness, primarily as to the source and timing of a prior PCE release. In a Phase I ESA prepared by SCS in 2008, PCE solvent use by the departing property tenant was identified. Several phases of subsequent site investigation confirmed a release of PCE to soil and soil vapor with likely impacts to groundwater. Groundwater monitoring is ongoing under Los Angeles RWQCB oversight. Remediation by soil vapor extraction may be conducted. This case was settled.

- In November 2008, Mr. Green provided an expert report and court testimony on behalf of the plaintiff in Malcolm Carter Enterprise v. Microsemi Real Estate, Inc. At issue was the evaluation of data for a Phase I ESA, identification of Recognized Environmental Concerns (RECs), regional and site-specific groundwater contamination by chlorinated solvents, selection of an appropriate regulatory agency for remedial oversight, and applicability of the NFA letter. This case was won by the plaintiff.

- In 2010, Mr. Green was retained by the defendant in City of Riverside v. Johnson Revocable Trust, et al., to review documents, consult with legal counsel, and provide expert reports and deposition and expert testimony regarding an eminent domain case in Riverside, California. Specific topics of interest included the adequacy of previous investigation, the source or sources of a PCE release, and the likelihood and estimated costs of remediation. This case was settled prior to trial.

- In 2009, Mr. Green conducted a review of the scope of work and fees charged by another environmental consultant conducting expert witness work on a development project in Santa Clarita. A declaration was provided to the Plaintiff's counsel regarding typical consultant fees, and the reasonableness of the time and expenses charged in relation to the final work product.

- In 2006, Mr. Green reviewed documents, consulted with legal counsel, and provided deposition and expert testimony regarding the source and timing of a methyl tertiary butyl ether (MTBE) release at a service station site in Strathmore, California. This case was settled prior to trial.

- In 2003, Mr. Green provided litigation support regarding the scope and limitations of a Phase I ESA as it pertains to a service station site in San Bernardino, California.

- In 1998, Mr. Green provided expert consulting services related to the use, history, and migration of hexavalent chromium and perchloroethene in soil and groundwater at a former plating site and adjacent Los Angeles Unified School District (LAUSD) school property, and proper allocation of responsibility regarding those issues.

- In 1994, Mr. Green provided a client's in-house and outside legal counsel with technical support on a case involving cost recovery/allocation and potential involvement in the Burbank Operable Unit of the San Fernando Valley Superfund site. This project included assessment of the nature, extent, fate, and transport of potential contaminants (chlorinated solvents, fuels, and/or heavy metals), previous and proposed site investigations, possible remedial alternatives and costs, and environmental investigations and/or remediation on properties in the surrounding area.

- Mr. Green has also provided outside legal counsel with technical support for due diligence assessment at a property in Irvine, California. The client's site was located adjacent to a service station that had groundwater impacted with gasoline-related constituents, including MTBE. His work involved obtaining regulatory records, review, and written summary regarding regulatory requirements and anticipated actions, health risks, and necessity of additional site assessment and/or investigation work on the client's property.

- He has also assisted a client and the client's legal counsel with review of information and response to the Los Angeles RWQCB's request for a work plan for investigation of suspected hexavalent chromium impacts to soil and groundwater at the client's former operation, located adjacent to the Burbank Airport and within the Burbank Operable Unit of the San Fernando Valley Superfund Site. The work plan and further investigation were not subsequently required.

- In 1991, Mr. Green provided expert testimony in Azusa Redevelopment Agency v. Exxon, a case involving investigation and remediation of gasoline-contaminated soil at a former Exxon station.

- 1991, Mr. Green provided expert testimony for Art Movers, Inc., in a case involving previous site investigations, proposed remedial activities, and potential risks to groundwater resources from perchloroethene-contaminated soils.

Publications and Presentations

Green, K. W. Vapor Encroachment & Intrusion: What are the Real (Estate) Risks? Journal of Property Management. March-April 2014.

Marsh, J. R., and K. W. Green. All Appropriate Inquiry - The New Phase I Standard. California Real Estate Journal. May 8, 2006.

Green, K. W., T. Dong, and D. R. Ness. Industrial Drycleaner Woes, Vernon, California. Proceedings of the Groundwater Resources Association. November 10, 2004.

Marsh, J. R., K. W. Green, and T. Dong. Standardizing Environmental Assessments: A Practical Perspective. Journal of Environmental Engineering. Vol. 122, No. 3. March 1996.

Marsh, J. R., K. W. Green, and T. Dong. Phase I Assessments and Due Diligence: One and the Same? Environmental Engineering Forum, American Society of Civil Engineers, Environmental Engineering Division. Journal of Environmental Engineering. Vol. 120, No. 6, November/ December 1994.

Green, K. W., and B. Garbaccio. Understanding and Interpreting a Site Investigation Report. California Redevelopment Journal. October 1994

Marsh, J. R., and K. W. Green. What Your Phase I Assessment Dollars Buy. California Redevelopment Association Journal. July 1994.

Appendix G

Phase II Environmental Site Assessment

PHASE II INVESTIGATION REPORT
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA 90241
(APNs 6284-019-013 through -017)

Prepared for:

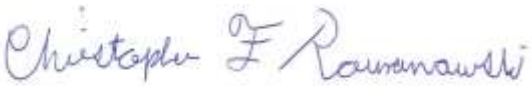
Prologis, Inc.
Pier 1, Bay 1
San Francisco, California 94111
(415) 733-9431

Prepared by:

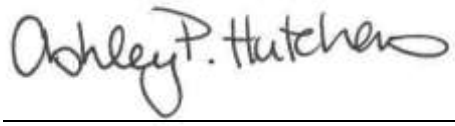
SCS ENGINEERS
3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806
(562) 426-9544

April 13, 2017
File No. 01216368.00 Tasks 3/4

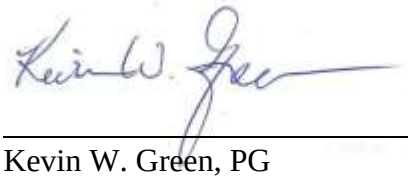
This Phase II Investigation Report dated April 13, 2017 for the Downey Industrial Center located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California, was prepared and reviewed by the following:



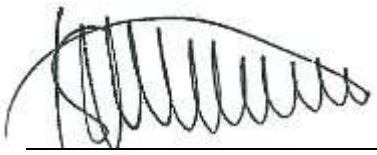
Christopher F. Romanowski
Staff Scientist
SCS ENGINEERS



Ashley P. Hutchens, R.E.P.A.
Project Manager
SCS ENGINEERS



Kevin W. Green, PG
Project Director
SCS ENGINEERS



Kenneth H. Lister, Ph.D., C.E.G., C.H.G.
Senior Technical Advisor
SCS ENGINEERS

Table of Contents

Section		Page
DISCLAIMER		iii
1	INTRODUCTION	1
2	GENERAL BACKGROUND	1
3	GEOLOGIC AND HYDROGEOLOGIC CONDITIONS	2
	Physiogeographic Setting	2
	Geology and Soils	3
	Hydrogeology	3
4	SITE INVESTIGATION AND ANALYTICAL RESULTS	3
	Soil Vapor Sampling	3
	Soil Vapor Analytical Results	4
	Soil Sampling and Analysis	5
	Soil Analytical Results	6
	Groundwater Sampling and Analysis	7
	Groundwater Analytical Results	7
	Disposal of Investigation Derived Wastes	7
5	DISCUSSION OF ANALYTICAL RESULTS AND REGULATORY LIMITS	8
	VOCs in Soil Vapor	8
	VOCs and OCPs in Soil	9
	TPH in Soil	9
	Metals in Soil	10
	VOCs in Groundwater	10
6	CONCLUSIONS AND RECOMMENDATIONS	11
7	REFERENCES	13

List of Figures, Tables & Appendices

Figures

1 Site Location Map
2 Site Map Showing Sample Locations
3 Site Map Showing Isoconcentration Contours of Trichloroethene (TCE) at 5 feet bgs in Soil Vapor
4 Site Map Showing Isoconcentration Contours of TCE at 15 feet bgs in Soil Vapor
5 Site Map Showing Isoconcentration Contours of TCE at 30 feet bgs in Soil Vapor
6 Site Map Showing Isoconcentration Contours of Tetrachloroethene (PCE) at 5 feet bgs in Soil Vapor
7 Site Map Showing Isoconcentration Contours of PCE at 15 feet bgs in Soil Vapor
8 Site Map Showing Isoconcentration Contours of PCE at 30 feet bgs in Soil Vapor
9 Site Map Showing Groundwater Sample Locations and VOC Analytical Results

Tables

1 Summary of Analytical Results for Soil Vapor Survey
2 Summary of Analytical Results for Soil Samples – TPH, VOCs, and OCPs
3 Summary of Analytical Results for Soil Samples – Metals and Hexavalent Chromium
4 Summary of Analytical Results for Groundwater Samples – VOCs

Appendices

A H&P Laboratory Reports and Chain-of-Custody Documentation
B Soil Boring Logs
C Chemtek Laboratory Reports and Chain-of-Custody Documentation
D County of Los Angeles Public Health Well Permit

DISCLAIMER

This report has been prepared specifically for Prologis, Inc, with specific application to investigation of soil, soil vapor, and groundwater for the Downey Industrial Center site located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, express or implied, is made as to the professional opinions presented herein. No other party, known or unknown to SCS, is intended as a beneficiary of this work product, its content or information embedded therein. Third parties use this report at their own risk.

Changes in site conditions may occur due to variation in rainfall, temperature, water usage, or other factors. Additional information that was not available to the consultant at the time of this investigation or changes that may occur on the site or in the surrounding area may result in modification to the site that would impact the summary and recommendations presented herein. This report is not a legal opinion.

1 INTRODUCTION

SCS Engineers (SCS) was retained by Prologis, Inc to conduct a Phase II Investigation consisting of soil, soil vapor, and groundwater sampling at the Downey Industrial Center located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road, Downey, California (the "Property"). Investigation activities were conducted in accordance with SCS's proposals dated February 9, 2017 (Proposal No. 010092217R3) and March 6, 2017 (Proposal No. 01216217). A location map for the Property is presented as **Figure 1**.

2 GENERAL BACKGROUND

SCS prepared a Phase I Environmental Site Assessment (ESA) for the Property dated January 31, 2017. The Property is comprised of approximately 29 acres and has a complex aerospace and manufacturing history. The Property is currently developed with four primary structures (two large and 2 small) occupied by five tenants, associated parking areas, storage yards, and canopy areas. The Phase I ESA identified the following Recognized Environmental Conditions (RECs):

- Numerous patch areas and steel plated vault/trenches were observed in the larger structures. A well was observed at the south end of Building 1A. No information could be provided to SCS regarding the well. The subsurface features observed within the structures represent a REC.

- Numerous tenants have occupied the Property including various manufacturing facilities for carpets, furniture, cabinetry, printing, logistics, pulp and paper recycling, etc. Chemical use by these historical tenants is unknown. The presence of various historic manufacturing operations with unknown chemical use on the Property constitutes a REC.

- Available records on the SCAQMD's Facility Information Detail (FIND) database indicate the use of degreasers containing chlorinated solvents on the parcel directly adjacent to the west (9236 Hall Road) by two former occupants, Aerojet and General Dynamics. One of these former neighbors, Aerojet, also occupied (prior to 1971) the portion of the Property located at 9300 Hall Road and thus may have conducted operations on the Property. Permits for the adjacent site at 9236 Hall Road indicated that both Aerojet and General Dynamics operated a 1,1,1-trichloroethane degreaser, a perchloroethylene degreaser, a Freon degreaser, scrubbers, wastewater treating equipment, a spray booth (paint and solvent), and other equipment related to aerospace manufacturing activities. The use of chlorinated solvents adjacent to, and potentially on the Property, constitutes a REC.

- Los Angeles County Department of Public Works (LACDPW) records indicated that Aerojet occupied the adjacent parcel to the west from at least 1971 to 2003, and leased the building at 9300 Hall Road for use, including aerospace machining operations, for a period of time up to 1971. A number of subsurface features were used during this time, including a 10,000 gallon diesel underground storage tank (UST; unknown installation date) and various concrete sumps and/or clarifiers. The UST was removed and some of the sump/clarifiers were abandoned in place in 1986. A no further action letter was issued by the LACDPW on February 28, 1986 for certain concrete oil, grease, and water

"tanks;" the 10,000-gallon UST was not included in this closure letter. Other subsurface features (drain lines, pit, sump, clarifier, etc.) were listed in the LACDPW records and it is anticipated these remain in place. Samples collected in 1985, from the contents of these features (both those removed and those that are anticipated to remain) revealed elevated concentrations of metals, total petroleum hydrocarbons (TPH), and oil and grease (analysis for volatile organic compounds [VOCs] was not conducted). The highest metals concentrations were detected in a sample collected from a "dirt pit." The disposition of the clarifiers, pits, sumps and other facilities contents from which samples were collected is unknown. The presence of these subsurface features, some of which currently appear to remain and some of which were abandoned in place, along with the former aerospace machining operations, are considered a REC.

- Two USTs (a 1,000 gallon gasoline and a 15,000 gallon diesel) were formerly located at the Western Pacific Paper and Pulp facility at 9350 Hall Road. A release of "up to 18,200" (presumably milligrams per kilogram [mg/kg], however the units were not reported) of TPH was listed on an unauthorized release report dated January 1995, that referred the case from the LACDPW to the Los Angeles Regional Water Quality Control Board (LARWQCB). Although the LARWQCB issued a no further action letter in 1996, there is no record that any remediation was conducted in this area, therefore the presence of the former USTs and associated release constitute a REC.

- In 1995, Heger Reality disposed of tank bottom wastes (based on the date, this may be associated with the USTs removed at 9350 Hall Road) and halogenated solvents from the address of 9400 Hall Road. The disposal of tank bottom wastes (indicating the presence of former UST[s]) and halogenated solvents is considered a REC.

In addition, the following business environmental risk (BER) was identified:

- During the site inspection, it was brought to SCS' attention that an underground storage area or bunker may exist at the northwest corner of the Property, in the area of the Duray (9301 Stewart and Gray Road) and Omniteam (9300 Hall Road) facilities. Comments by tenants at these businesses suggested the bunker was used during World War II and that it housed chemicals. No evidence regarding the presence of this feature was observed during the site inspection, and its current or past existence has not been confirmed.

As previously mentioned, the current investigation consisted of soil, soil vapor, and groundwater sampling at locations of historical subsurface features, in areas where potential degreasers were used, and in other locations across the Property to provide site coverage. This report describes results of an initial investigation conducted in February 2017 and additional activities conducted in March 2017 to further define the initial findings.

3 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

PHYSIOGEOGRAPHIC SETTING

The Property is located in the Downey Plain of the central Los Angeles basin. Site elevation ranges from approximately 107 to 112 feet above mean sea level. Site topography is generally

flat with a slight regional downward slope to the south. The San Gabriel River is located approximately 0.5 miles to the southeast of the Property.

GEOLOGY AND SOILS

Based on the regional geology as outlined in the California Department of Water Resource Bulletin 104 (Planned Utilization of the Groundwater Basins of Los Angeles County, June 1961,) surface sediments in the area consist of Quaternary alluvial deposits of unconsolidated gravel, sand, silt, and clay. Data from on-site soil borings indicates a predominantly silty section extending to a depth of approximately 20 to 40 feet bgs with a predominantly sandy section below this to at least 80 feet bgs.

HYDROGEOLOGY

Based on the results of groundwater monitoring at the former Astro Pak facility located approximately 0.5 miles west of the Property (GeoTracker, Site #SL2044E1590), the depth to groundwater in the area is generally 75 to 80 feet below ground surface (bgs). The results of this Phase II investigation identified groundwater at 80 to 85 feet bgs. The regional direction of groundwater flow is generally southerly.

4 SITE INVESTIGATION AND ANALYTICAL RESULTS

The Phase II Investigation consisted of groundwater, soil, and soil vapor sampling as described below. Investigation activities were conducted on February 13, 14, 15, and 17, and March 13, 14, 16, and 17, 2017. As required by law, SCS pre-marked the proposed sampling points and notified Underground Service Alert (USA) (DigAlert Ticket No. A70320477, A70660834, and A70660836). Prior to sampling, SCS contracted with Goldak, Inc. (Goldak), of Sylmar, California to clear the proposed boring locations prior to initiating drilling activities to avoid any subsurface utilities.

SOIL VAPOR SAMPLING

Under the direction of SCS, H&P Mobile Geochemistry (H&P) of Carlsbad, California installed soil vapor probes to a depth of 5 feet below grade at 50 locations (SV1 through SV50). In addition, nested probes were installed at a number of these locations at the 15- and/or 30-foot depths. At twelve of the 50 locations (SV2, SV3, SV8, SV11, SV12, SV15, SV16, SV23, SV25, SV27, SV35, and SV36) soil vapor probes were installed at 15 feet bgs and at five of the 50 locations (SV3, SV8, SV34, SV35, and SV36) soil vapor probes were installed at 30 feet bgs. An attempt was made to collect a 15-foot sample from SV34, however high vacuum was encountered and a sample was not attainable. Soil vapor locations are shown on **Figure 2**.

Soil vapor sampling equipment consisted of hollow steel rods mechanically driven into subsurface soils to the desired depth using a handheld Roto-hammer or direct-push drill rig. The steel rods were retracted from each boring and new (clean) 1/8-inch diameter Nylaflow tubing, with a polypropylene filter placed on the bottom end, was inserted to the desired depth. Clean #2/12 Monterey sand was placed in a 6-inch vertical interval around each filter. A bentonite seal

was placed above the sand pack for each probe. The remaining annular space was then backfilled with bentonite and hydrated.

Soil vapor sampling was conducted in general accordance with the *Advisory – Active Soil Gas Investigations*, published by the Regional Water Quality Control Board and Department of Toxic Substance Control in July 2015 (the "Guidance"). Following a minimum of 30 minutes after being set, the probes were purged to remove ambient air from the sampling system and ensure that the collected soil vapor sample was representative of soil conditions. A three system purge volume was used for all locations. In addition, prior to collecting samples into glass syringes, a leak-check compound (1,1-difluoroethane) was exposed at the surface. Note that the leak-check compound was not detected in any of the analyzed samples.

A total of 74 soil vapor samples (including one replicate sample per sampling event from SV10, SV12, SV20, SV27, SV34, and SV40) were collected and analyzed for VOCs using EPA Method 8260SV (equivalent to EPA Method 8260B) in an on-site mobile laboratory provided by H&P. H&P is certified by the California Department of Health Services to conduct the specified analysis. Chain-of-custody documentation was completed in order to accurately track the samples from the point of collection through analysis.

After all samples had been collected and the soil vapor analysis completed, the probes were removed and the surface was patched to match the surrounding surface material. No soil cuttings or water requiring disposal were generated during the soil vapor assessment activities.

Soil Vapor Analytical Results

The H&P laboratory reports, chain-of-custody documentation and quality assurance/control (QA/QC) data are included as **Appendix A**.

As summarized in **Table 1,** a total of ten VOCs were detected in soil vapor. Although tetrachloroethene (PCE) was detected in more samples (61 of the 74 samples, including replicates), trichloroethene (TCE) was found at much higher concentrations in most of the 51 samples (including replicates) in which it was detected. TCE was detected at concentrations ranging from 0.13 to 1,300 micrograms per liter (µg/l) and PCE at concentrations ranging from 0.09 to 250 µg/l.

The remaining VOCs detected included chloroform in 15 samples (concentrations ranged from 0.09 to 3.4 µg/l), 1,1,2-trichlorotrifluoroethane (Freon 113) in 12 samples (0.47 to 5.4 µg/l), cis-1,2-dichloroethene (cis-1,2-DCE) in five samples (0.64 to 7.4 µg/l), benzene in three samples (0.08 to 0.99 µg/l), 1,1-dichloroethene (1,1-DCE) in three samples (0.50 to1.2 µg/l), 1,1,1-trichloroethane in two samples (2.7 and 8.3 µg/l), and trans-1,2-dichloroethene (trans-1,2-DCE) and vinyl chloride were each detected in one sample at concentrations of 1.2 and 0.07 µg/l, respectively.

SOIL SAMPLING AND ANALYSIS

Under the direction of SCS, H&P conducted soil sampling using a truck-mounted direct-push drill rig. A total of 20 soil borings were drilled for the collection of soil samples. Soil boring locations are shown on **Figure 2**. Borings at 14 locations (SB1, SB4 through SB13, SB16, SB19, and SB20) extended to a depth of 10 feet bgs, with soil samples collected at the 1-, 5-, and 10-foot depths. Five locations (SB2, SB3, SB15, SB17, and SB18) were drilled to 20 feet bgs with samples collected at 5-foot intervals. Boring SB14 was extended to 15 feet bgs with samples collected at 1, 5, 10, and 15 feet bgs.

Soil borings were drilled using a truck-mounted direct-push drill rig equipped with a hydraulic hammer and a 2-foot long, 1.5-inch diameter sampler. A pointed steel tip was fixed to the head of the solid-spoon sampler and driven to the desired sampling depth. Soil matrix samples were collected by retracting the drive tip through the center of the sampler with an inner rod, and hydraulically hammering the sampler an additional two feet. Soil samples were recovered in two-foot long, 1-inch diameter pre-cleaned plastic acetate sleeves that had been placed inside the sampler. At each sampling depth, an approximately 6- to 12-inch section was cut from the sample sleeve and preserved for subsequent laboratory analysis, as described below.

In addition to the soil borings described above, eight deep borings (designated GW1 through GW8; **Figure 2**) were drilled with a truck-mounted hollow-stem auger drill rig operated by Cascade Environmental (Cascade) of Montclair, California with oversight by SCS on February 13, 14, and 15 and March 13, and 14, 2017. These borings were advanced in order to obtain grab groundwater samples. As further discussed below, groundwater was encountered between approximately 80 and 85 feet bgs. Soil samples were collected for lithological purposes only from GW1 and GW2 (first phase of investigation) and for lithological and laboratory analysis from GW6 and GW7 (second phase of investigation). A truck-mounted hollow-stem auger drill rig was used to drill and collect samples. During drilling of GW1 and GW2, soil samples were collected at 10-foot intervals from a depth of 30 to 80 feet bgs in order to observe lithology since all other borings during the first phase of investigation terminated at a maximum depth of 20 feet bgs. Samples from GW6 and GW7 were at 10 foot intervals from 10 to 80 feet bgs.

Soil samples obtained using the hollow-stem auger drill rig were collected using a split-spoon drive sampler. The sampler was unlined to obtain core samples for lithological observations during sampling of GW1 and GW2 and lined with brass sample tubes for collection of analytical samples during drilling of GW6 and GW7.

All soil samples for laboratory analysis were prepared in the field for analysis of VOCs using EPA Method 5035, which includes the collection of three 5-gram aliquots of soil from each soil sample using a plunger/sub-sampler provided by the laboratory. The three aliquots of soil were immediately placed in 40 milliliter VOA (volatile organic analysis) vials as follows – two aliquots in VOAs with a sodium bisulfate preservative and one in a methanol preservative. The remaining soil in the sleeve was retained for lithology as discussed below. The ends of the sample tubes were covered with Teflon squares, sealed with plastic end caps, and secured with non-volatile tape.

A portion of each sample sleeve was observed for soil classification and to screen samples for indications of potential contamination, such as discoloration and odor. No soil samples collected showed signs of contamination in the field. Boring logs recording the lithology observed are provided in **Appendix B**. After soil sample collection, the shallow borings (20 feet or less) were backfilled with bentonite and hydrated throughout and the deep borings were backfilled with a cement/bentonite slurry. The surface of each boring was patched to match the surrounding surface cover.

The samples were placed in a chilled ice-chest for transport to Chemtek Environmental Laboratories, Inc (Chemtek) of Santa Fe Springs, California. In total, 66 soil samples were analyzed for TPH using EPA Method 8015M, 76 soil samples were analyzed for VOCs by EPA Method 8260B, 30 soil samples were selected for analysis of CAM-metals using EPA Method 6010B/7471A, four soil samples were selected for analysis of hexavalent chromium using EPA Method 7199, and four soil samples were selected for analysis of organochlorine pesticides (OCPs) using EPA Method 8081A.

Chemtek is certified by the California Department of Health Services to conduct the specified analyses. Samples were tracked from the point of collection through the laboratory using proper chain-of-custody protocol.

Soil Analytical Results

The Chemtek laboratory report, chain-of-custody documentation, and quality assurance/quality control (QA/QC) data are included as **Appendix C**. Analytical results for TPH, VOCs, and organochlorine pesticides (OCPs) are summarized in **Table 2** and a summary of metals, including hexavalent chromium, is provided in **Table 3**.

As shown in **Table 2**, TPH as gasoline and light hydrocarbons (TPH-g [carbon-chain range C_4-C_{12}]) was not detected in any soil samples. TPH as diesel (TPH-d [carbon-chain range C_{13}-C_{22}]) was detected in two soil samples, SB5-1' and SB7-5', at concentrations of 127 and 10.5 mg/kg, respectively. Heavy oil-range TPH (TPH-o [carbon-chain range C_{23}-C_{40}]) was detected in three soil samples (SB5-1', SB7-5', and SB18-5') at concentrations of 818, 41.5, and 42.8 mg/kg, respectively.

PCE was detected in 20 of 76 soil samples with concentrations ranging from 1.02 to 10.5 micrograms per kilogram [µg/kg]). TCE was detected in 22 of 76 soil samples with concentrations ranging from 1.01 to 34 µg/kg. Cis-1,2-DCE was detected in one sample (GW7-40) at a concentration of 2.57 µg/kg and 1,1-DCE was detected in two samples GW6-40 and GW7-40 at concentrations of 1.89 and 1.13 µg/kg, respectively. As shown in **Table 2,** of the four samples analyzed for OCPs, one sample (SB4-1') had a detection of 4,4-DDE at a concentration of 5.51 µg/kg.

Analytical results of metals concentrations in selected soil samples are summarized in **Table 3**. The metals detected in samples collected at the Property included arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. With the exception of arsenic in SB18-5, SB18-10, and SB20-1 all other metals were detected at, or below, concentrations typically found in Southern California soils. Four samples (SB14-1, SB14-5, SB16-1, and SB16-5) were analyzed

for hexavalent chromium; one sample (SB14-1) had a detection of 0.329 mg/kg **(Table 3)**, which is below regulatory thresholds.

GROUNDWATER SAMPLING AND ANALYSIS

A permit was obtained from the County of Los Angeles Department of Public Health, Drinking Water Program to collect groundwater samples. A copy of the permit is provided in **Appendix D**.

As previously discussed, eight deep borings were drilled on February 13 through 15 and March 13 and 14, 2017 for the purpose of collecting grab groundwater samples (GW1 through GW8; **Figure 2**). Drilling and soil samples was conducted by Cascade, as discussed above.

Borings were terminated approximately 2 to 3 feet into groundwater which was encountered between approximately 80 and 85 feet bgs. Groundwater "grab" samples were recovered from each boring by placing temporary PVC casing through the hollow stem augers and using a disposable bailer to recover groundwater samples. A 5-foot screen was set in the water column and six feet of #3 Monterey sand was used as a filter pack around the screened interval. Groundwater samples were collected without headspace, in 40 milliliter VOAs preserved with hydrochloric acid.

Upon completion of the groundwater sampling, all auger and sampling materials were removed and the borings were backfilled with a bentonite grout and the surface patched to match the surrounding surface.

Groundwater Analytical Results

The Chemtek laboratory report, chain-of-custody documentation, and quality assurance/quality control (QA/QC) data are included as **Appendix C**.

Analytical results for VOCs in groundwater are summarized in **Table 4.** TCE and cis-1,2-DCE were detected in six out of the eight sample locations at concentrations ranging from 1.34 to 68.9 and 2.50 to 20.5 µg/l, respectively. 1,1-Dichloroethane (1,1-DCA) was detected in four samples at concentrations ranging from 1.05 to 4.47 µg/l. 1,1-DCE was detected in three samples at concentrations between 1.12 and 4.77 µg/l and trans-1,2-DCE and methyl tert-butyl ether (MTBE) were each detected in one sample at concentrations of 1.63 and 3.37 µg/l, respectively. The results are discussed in greater detail in Section 5.0.

DISPOSAL OF INVESTIGATION DERIVED WASTES

Soil cuttings and decontamination water generated during drilling of GW1 through GW8 were placed in 55-gallon steel drums, labeled, and stored on the Property until properly characterized and profiled for disposal. The drums were transported from the Property on February 24 and March 23, 2017 under non-hazardous waste manifest to K-Pure Waterworks, Inc. in Rancho Cucamonga, California. Documentation of the appropriate recycling and/or disposal of waste drums is available upon request.

5 DISCUSSION OF ANALYTICAL RESULTS AND REGULATORY LIMITS

VOCS IN SOIL VAPOR

The California Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO) has issued Human Health Risk Assessment Note Number 3 (Note No. 3), most recently revised in June 2016. Note No. 3 makes recommendations regarding the methodology and use of the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs; most recently updated in May 2016), and DTSC-modified Screening Levels (SLs) for soil vapor screening under residential and commercial/industrial land use scenarios.

SLs for evaluating soil vapor intrusion are calculated using indoor air SLs and recommended attenuation factors and are referred to by SCS as DTSC-Recommended SLs. These calculated soil vapor screening levels are for samples collected near the source area either for existing buildings or future buildings (Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air, DTSC and CalEPA, October 2011). The term "near the source area" is considered to be at or just above the contaminant source, generally no more than five feet beneath a building foundation. The values calculated using Note No. 3 recommendations are conservative. Chemical concentrations in excess of the calculated DTSC-Recommended SLs are not conclusive evidence of adverse risks to human health. Additional investigation – such as sub-slab sampling, indoor air assessments, site-specific health risk assessments, etc. – may be warranted to further assess site-specific health risks.

The Property is currently used as commercial warehouse and manufacturing space, but may be redeveloped in the future. Therefore soil vapor results from this investigation are compared to the DTSC-Recommended SLs for both **existing** and **future** commercial sites in **Table 1**. Note that the DTSC-Recommend SLs for future buildings are double the DTSC-Recommend SLs for existing buildings.

VOCs in soil vapor samples with concentrations above the DTSC-Recommend SLs for existing and future commercial buildings are as follows:

- TCE was detected in 39 samples above the commercial DTSC-Recommended SL of 3.0 µg/l for existing buildings. TCE was detected in 36 samples above the commercial DTSC-Recommended SLs of 6 µg/l, for future commercial/industrial buildings. Concentrations detected at the Property ranged from 0.55 to 1,300 µg/l.

- PCE was detected in 33 samples above the commercial DTSC-Recommended SL of 2.0 µg/l for existing buildings and in 30 samples above the commercial DTSC-Recommend SL of 4 µg/l, for future buildings. Concentrations detected at the Property ranged from 0.48 to 250 µg/l.

- Chloroform was detected in 9 samples above commercial DTSC-Recommended SL of 0.53 µg/l for existing buildings and in 7 samples above the commercial DTSC-

Recommend SL of 1.1 µg/l, for future buildings. Concentrations detected at the Property ranged from 0.12 to 3.4 µg/l.

- Benzene was detected in one sample above the DTSC-Recommend SLs for commercial existing buildings and commercial future buildings of 0.42,and 0.84 µg/l, respectively.

No other VOCs were detected above their commercial limits. Because the Property is currently commercial, concentrations are not compared to the residential limits for existing buildings.

Figures 3, 4, and 5 show isoconcentration contours of TCE along with vapor concentrations at 5, 15, and 30 feet bgs. **Figures 6, 7,** and **8** depict the same for PCE. As depicted on these figures, the highest concentrations of TCE and PCE are located on the eastern portion of the Property. The concentrations appear to increase with depth at this location with the highest concentrations of TCE (1,300 µg/l) and PCE (250 µg/l) detected at 30 feet bgs in SV36.

In addition, secondary minor releases appear be located on the western side of the Property at 9300 Hall Road and 9301 Stewart and Gray Road. The concentrations of TCE and PCE in these areas are significantly lower.

VOCS AND OCPS IN SOIL

In additional to the soil vapor screening discussed above, Note No. 3 also recommends the use of U.S. EPA Region 9 RSLs for the majority of the regulated chemicals in soil at hazardous waste sites and permitted facilities. However, for certain chemicals and compounds, DTSC has calculated a more stringent SL. Human health risks associated with contact of contaminated soil (dermal, ingestion, etc.) in California can be assessed by comparing concentrations detected at the Property to the most stringent (or conservative) of these values for each chemical, referred to as the DTSC-Recommended SLs and presented on **Table 2**.

As shown in **Table 2**, the concentrations of all VOCs and OCPs detected were well below their corresponding DTSC-Recommended SLs for both residential and commercial sites. Therefore, these VOCs and OCPs for soil do not appear to represent a risk to human health for both residential and industrial/commercial exposure scenarios and would not be a concern to a regulatory agency.

TPH IN SOIL

The Los Angeles Regional Water Quality Control Board (LARWQCB) has established cleanup guidelines, also known as soil screening levels (SSLs), for assessing soils based on the potential for groundwater contamination (LARWQCB, 1996). Based on the depth to groundwater of approximately 80 feet bgs at the Property, the SSLs for petroleum hydrocarbons between 20 and 150 feet above groundwater are:

- TPH-g or gasoline-range hydrocarbons (C_4-C_{12}) – 500 mg/kg
- TPH-d or diesel-range hydrocarbons (C_{13}-C_{22}) – 1,000 mg/kg
- TPH-o or oil/heavy-range hydrocarbons (C_{23}-C_{40}) – 10,000 mg/kg.

As shown in **Table 2,** the TPH concentrations detected do not exceed the corresponding SSLs and are not considered a threat to groundwater.

METALS IN SOIL

Regulatory guidance for metals in soil is based on an evaluation of both background and risk-based concentrations. The Kearney Foundation of Soil Science published a special report of background concentrations of trace and major elements in California soils (Bradford et al, 1996). In addition, human health risks associated with contact of contaminated soil (dermal, ingestion, etc.) in California are assessed by comparing concentrations detected at the Property to the most stringent (or conservative) of the RSLs, DTSC-SLs or other screening level (e.g. California Human Health Screening Level [CHHSL] used for lead), cumulatively referred to in this report as the DTSC-Recommended SLs (see **Table 3).**

As shown in **Table 3**, with the exception of arsenic, the analytical results for all metals in the samples analyzed were below their below or within the typical background concentrations ranges for California soils and below their corresponding DTSC-Recommended SLs for soils at residential and commercial/industrial sites.

With regard to arsenic, the US EPA has acknowledged that in some cases, the predictive risk-based models generate SLs that lie within or even below typical background concentrations. If natural background concentrations are higher than the risk-based SLs, an adjustment of the SL is probably needed. US EPA uses naturally occurring arsenic in soils as an example. Further, the DTSC has acknowledged that the strict use of SLs is impractical and has set acceptable levels of arsenic in soil in the range of 8 to 12 mg/kg for school sites in California. Of the 20 samples analyzed for metals, three (SB18-5, SB18-10, and SB20-1) had arsenic concentrations greater than 12 mg/kg. The 5-foot sample from SB20 (SB20-5) had a significantly lower arsenic concentration (4.39 mg/kg), as did the 15-foot sample from SB18 (SB18-15 at 10.5 mg/kg) and the 20-foot sample from SB18 (SB18-20) was non-detect for arsenic. These latter concentrations are within typical background range and below the acceptable range set by DTSC, indicating that elevated arsenic does not extend vertically as deep as 5 feet bgs at location SB20 and as deep as 15 feet bgs in location SB18.

One sample (SB14-1) contained hexavalent chromium at a concentration of 0.329 mg/kg which is above the residential DTSC-Recommended SL of 0.3 mg/kg but below the commercial DTSC-Recommended SL of 6.3 mg/kg. In addition, the deeper sample (5 feet bgs) from this boring (SB14-5) did not contain a detectable concentration of hexavalent chromium.

VOCS IN GROUNDWATER

The VOCs detected in groundwater are compared to drinking water standards known as the California maximum contaminant levels (MCLs) in **Table 4**.

As shown, TCE exceeded its MCL of 5 µg/l in 5 of the 6 samples in which it was detected (GW2, GW4, GW5, GW6 and GW7). Cis-1,2-DCE was detected in one of 6 samples (GW4) at a concentration above its MCL of 6 µg/l. None of the other four VOCs detected were above their

respective MCLs. In general, the highest concentrations of VOCs were detected in GW4, located adjacent to the southwest corner of the 9399 Stewart and Gray building.

6 CONCLUSIONS AND RECOMMENDATIONS

Two phases of investigation were conducted by SCS on February 13, 14, 15, 17, and on March 13, 14, 16, and 17, 2017, which included soil, soil vapor, and groundwater sampling at the Property. The objectives of these investigations were to assess the RECs identified in the Phase I ESA for Downey Industrial Center (SCS, January 2017) and to further characterize impacts to the Property during the due diligence period. Based on the results of this investigations, SCS concludes the following:

- TCE and PCE were the most prevalent VOCs detected in soil vapor. TCE was detected in 51 of 74 soil vapor samples collected at concentrations up to 1,300 µg/l (at a depth of 30 feet bgs). A total of 39 of these samples were detected above the DTSC-recommended SL of 3.0 µg/l for existing commercial/industrial buildings and 36 of the samples were detected above the DTSC-recommended SL of 6.0 µg/l for a future commercial structure. **Figures 3, 4, and 5** show estimated TCE vapor concentration contours at 5, 15, and 30 feet bgs.

  PCE was detected in 61 of the 74 soil vapor samples collected at concentrations up to 250 µg/l. A total of 33 samples were detected above the DTSC-recommended SL of 2.0 µg/l for an existing commercial/industrial building and in 30 samples above the DTSC-Recommend SL of 4 µg/l for a future commercial/industrial building. **Figures 6, 7, and 8** show estimated PCE vapor concentration contours at 5, 15, and 30 feet bgs.

  As depicted on **Figures 3** through **8**, the distribution of TCE and PCE in soil vapor is in the area of 9399 Stewart and Gray Road on the eastern portion of the Property. In addition, lower concentrations of PCE and TCE were identified at 9300 Hall Road on the western portion of the Property.

- The metals detected in samples collected at the Property included arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. With the exception of arsenic in SB18-5, SB8-10, and SB20-1 all other metals were detected at, or below, concentrations typically found in Southern California soils and below their corresponding DTSC-Recommended SLs. A deeper sample collected at SB20 (SB20-5) had a significantly lower arsenic concentration (4.39 mg/kg), as did a deeper sample at SB18 (SB18-15 at 10.5 mg/kg) within typical background range and below the acceptable range set by DTSC, indicating that elevated arsenic does not extend vertically. One sample (SB14-1) contained hexavalent chromium at a concentration of 0.329 mg/kg which is below the DTSC-Recommended SL of 6.3 mg/kg for commercial sites. The deeper sample at this location (SB14-5) did not contain hexavalent chromium.

- The TPH concentrations detected do not exceed the corresponding SSLs and are not indicative of a potential risk to groundwater. Based on the distribution of the detected petroleum hydrocarbons and the relatively low concentrations, the presence of these

substances does not appear to represent a significant release on the Property and would likely not be a concern to a regulatory agency.

- The concentrations of all VOCs and OCPs detected in soil were well below their corresponding DTSC-Recommended SLs for soil at both residential and commercial sites. Therefore, these VOCs and OCPs in soil do not appear to represent a risk to human health and would not be a concern to a regulatory agency.

- Analysis of eight grab groundwater samples indicates that groundwater beneath the Property has been impacted by VOCs (predominantly TCE and PCE). TCE was detected above its MCL of 5 µg/l in five of the eight samples collected. One sample location had a detection of cis-1,2-DCE that was above the MCL of 6 µg/l.

In addition to the conclusions and recommendations stated above, SCS recommends that future investigations and subsequent remediation work be performed with the oversight of a regulatory agency.

7 REFERENCES

Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Fampton, J.A., and Wright, H., 1996, Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Science Special Report, Division of Agriculture and Natural Resources, University of California.

California Department of Toxic Substances Control and Regional Water Quality Control Board, July 2015. *Advisory – Active Soil Gas Investigations.*

California Department of Toxic Substances Control (DTSC) and California Environmental Protection Agency (CalEPA), October 2011. *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance).*

California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), June 2016. *Human Health Risk Assessment (HHRA) Note Number 3*.

California Department of Water Resources, March 1966. *Planned Utilization of the Ground Water Basins of the Coastal Plain of San Gabriel Valley. Bulletin No. 104-2.*

California Environmental Protection Agency, State Water Resources Control Board. *Geotracker website; http://geotracker.waterboards.ca.gov/*

California Environmental Protection Agency, January 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties*.

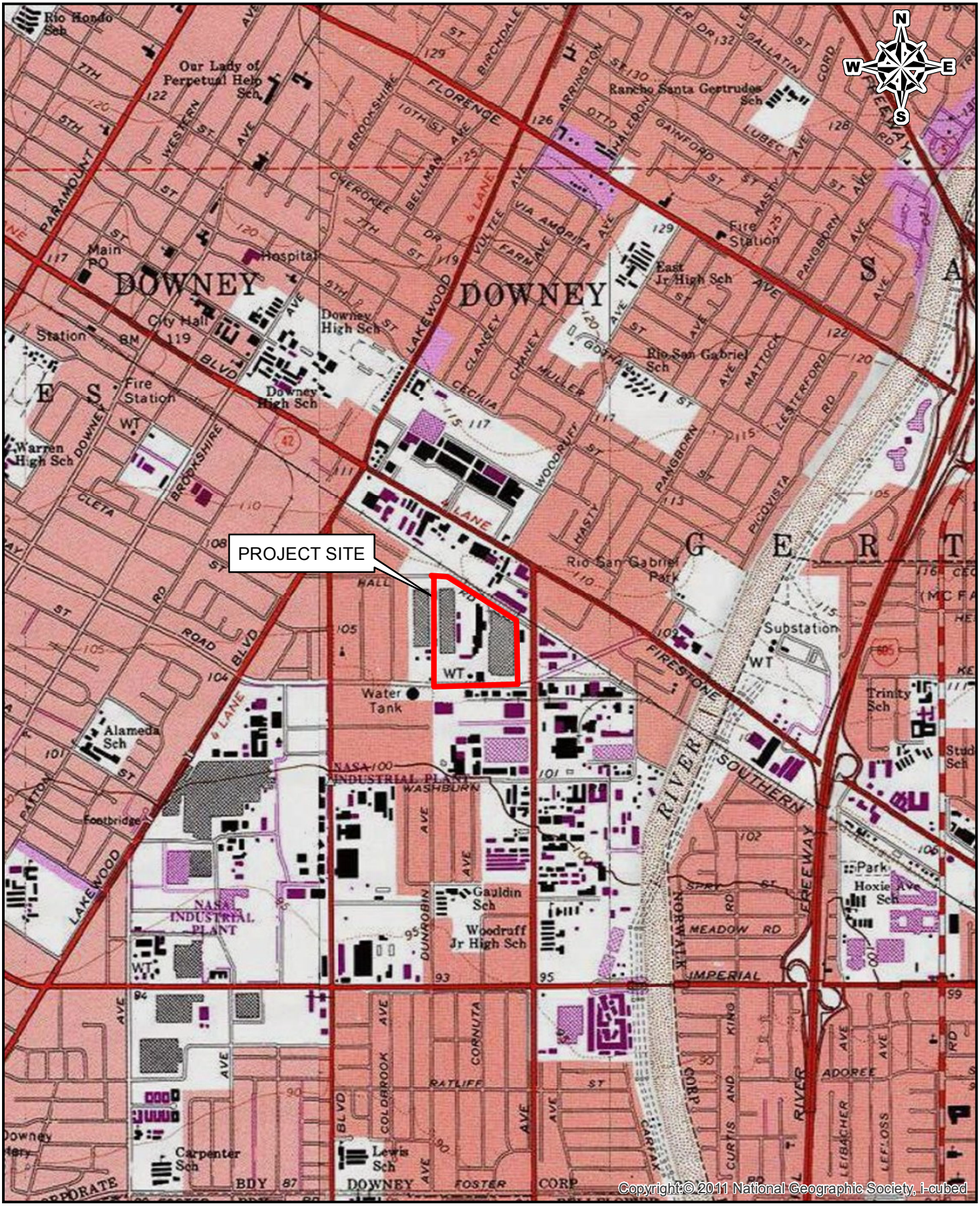
RWQCB (Los Angeles Region), May 1996. *Interim Site Assessment & Cleanup Guidebook.*

SCS Engineers. January 2017. *Phase I Environmental Assessment, Downey Industrial Site, 9300, 9350, and 9400 Hall Road 9301, 9333, and 9399 Stewart & Gray Road, Downey, California 90241.*

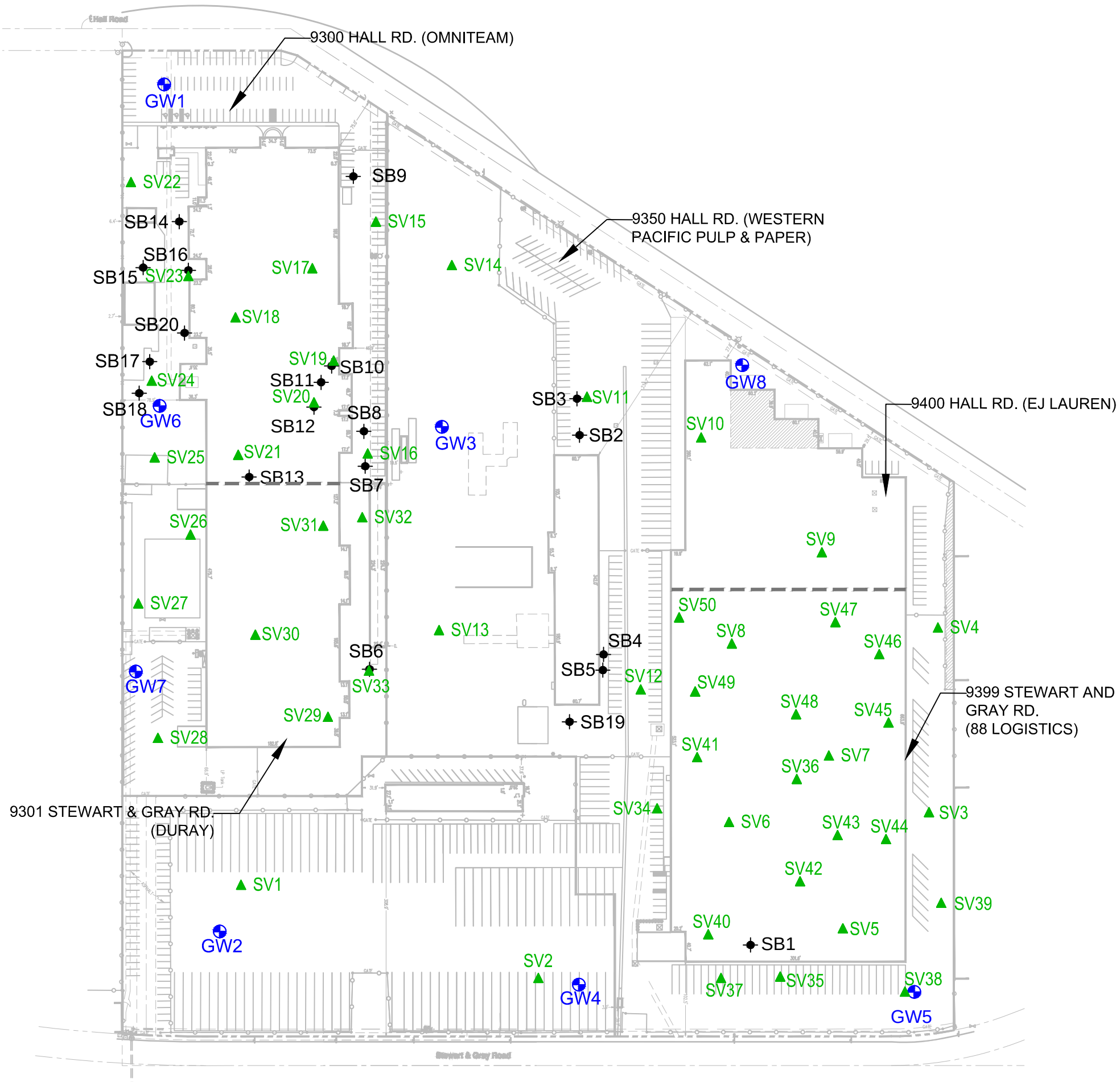
State of California Department of Water Resources (DWR), March 1966. *Bulletin No. 104-2, Planned Utilization of the Ground Water Basins, San Gabriel Valley, Appendix A: Geohydrology.*

United States Environmental Protection Agency, Region IX, July 2016. *Regional Screening* Levels.

FIGURES 1 THROUGH 9



SCS ENGINEERS 3900 KILROY AIRPORT WAY, STE 100 LONG BEACH, CALIFORNIA 90806-6816	SITE: 9300, 9350, & 9400 Hall Road 9301, 9333, & 9399 Stewart Gray Road Downey, California 90241	Job No.: 01216368.00 Title: SITE LOCATION MAP	FIGURE 1



LEGEND

- SOIL BORING LOCATIONS
- SOIL VAPOR PROBES
- GROUNDWATER SAMPLE LOCATION

N

GRAPHIC SCALE

0 150 300

SCALE IN FEET

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO. 01216368.00 T3	DWN. BY: APH	ACAD FILE: PROJECTS/01216368
DSN. BY: CEH	CHK. BY: KWG	APP. BY: KWG

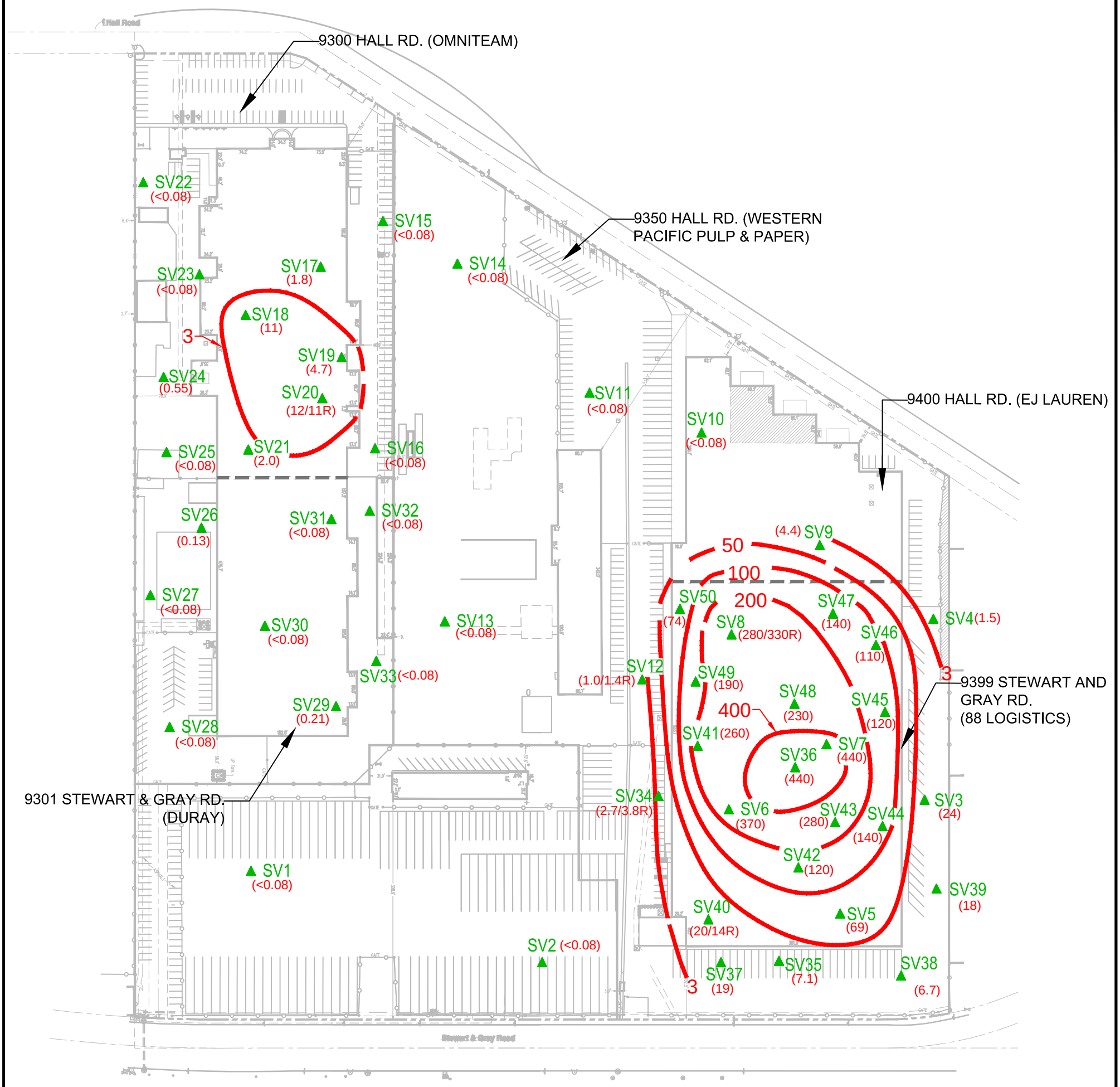
CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING SAMPLE LOCATIONS

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 2

N: \PROJECTS\01216368.00\Task 3 – Phase II\Design\DOWNEY_recover.dwg Apr 07, 2017 – 3:4pm By: 4194ceh



LEGEND

▲ SOIL VAPOR PROBE LOCATIONS

ESTIMATED TRICHLOROETHENE (TCE) CONTOUR OF EQUAL CONCENTRATION AT 5 FEET BELOW GROUND SURFACE

(3.3) TCE CONCENTRATION AT 5 FEET BELOW GROUND SURFACE IN MICROGRAMS PER LITER (µg/l)

(<0.08) NOT DETECTED, LESS THAN REPORTING LIMIT

R REPLICATE SAMPLE

N

GRAPHIC SCALE
0 150 300
SCALE IN FEET

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.	DWN. BY:	ACAD FILE:
01216368.00 T3	APH	PROJECTS/01216368
DSN. BY: CEH	CHK. BY: KWG	APP. BY: KWG

CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING ISOCONCENTRATION CONTOURS OF TRICHLOROETHENE AT 5 FEET BGS IN SOIL VAPOR

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 3

N: \PROJECTS\01216368.00\Task 3 – Phase II\Design\DOWNEY_recover.dwg Apr 07, 2017 – 3:4pm By: 4194ceh

9300 HALL RD. (OMNITEAM)

9350 HALL RD. (WESTERN PACIFIC PULP & PAPER)

9400 HALL RD. (EJ LAUREN)

9399 STEWART AND GRAY RD. (88 LOGISTICS)

9301 STEWART & GRAY RD. (DURAY)

Hall Road

Stewart & Gray Road

SV1
SV2 (<0.08)
SV3 (72)
SV4
SV5
SV6
SV7
SV8 (430)
SV9
SV10
SV11 (0.63)
SV12 (11)
SV13
SV14
SV15 (<0.08)
SV16 (<0.08)
SV17
SV18
SV19
SV20
SV21
SV22
SV23 (0.41)
SV24
SV25 (0.14)
SV26
SV27 (<0.08/<0.08R)
SV28
SV29
SV30
SV31
SV32
SV33
SV34
SV35 (42)
SV36 (280)
SV37
SV38
SV39
SV40
SV41
SV42
SV43
SV44
SV45
SV46
SV47
SV48
SV49
SV50

400
200
100
50

LEGEND

▲ SOIL VAPOR PROBE LOCATIONS

ESTIMATED TRICHLOROETHENE (TCE) CONTOUR OF EQUAL CONCENTRATION AT 15 FEET BELOW GROUND SURFACE

(3.3) TCE CONCENTRATION AT 15 FEET BELOW GROUND SURFACE IN MICROGRAMS PER LITER (µg/l)

(<0.08) NOT DETECTED, LESS THAN REPORTING LIMIT

R REPLICATE SAMPLE

N

GRAPHIC SCALE
0 150 300
SCALE IN FEET

N: \PROJECTS\01216368.00\Task 3 – Phase II\Design\DOWNEY_recover.dwg Apr 07, 2017 – 3:4pm By: 4194ceh

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

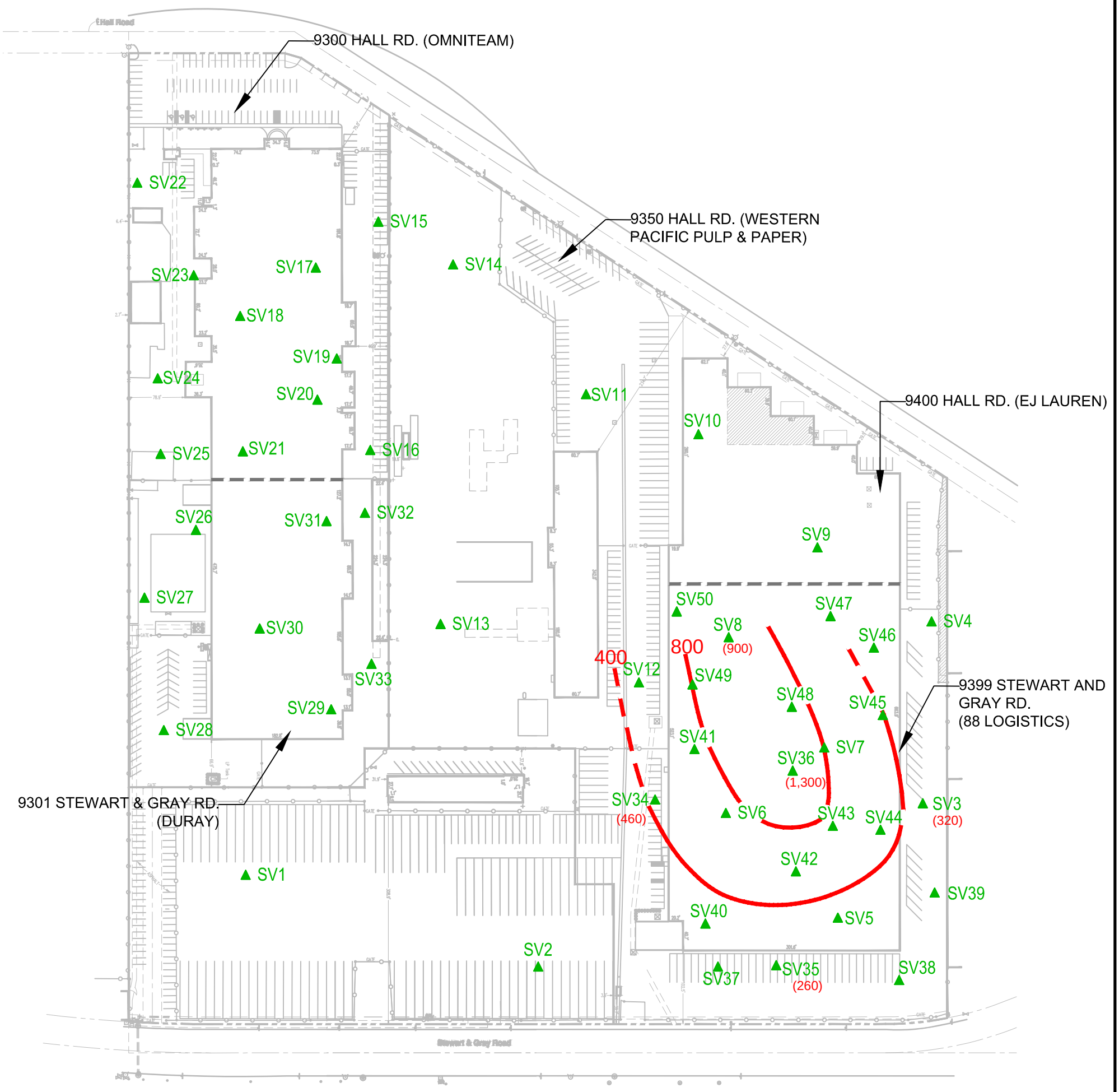
PROJ. NO.	DWN. BY:	ACAD FILE:
01216368.00 T3	APH	PROJECTS/01216368
DSN. BY: CEH	CHK. BY: KWG	APP. BY: KWG

CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING ISOCONCENTRATION CONTOURS OF TRICHLOROETHENE AT 15 FEET BGS IN SOIL VAPOR

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 4



LEGEND

SOIL VAPOR PROBE LOCATIONS

ESTIMATED TRICHLOROETHENE (TCE) CONTOUR OF EQUAL CONCENTRATION AT 30 FEET BELOW GROUND SURFACE

(3.3) TCE CONCENTRATION AT 30 FEET BELOW GROUND SURFACE IN MICROGRAMS PER LITER (µg/l)

N

GRAPHIC SCALE
0 150 300
SCALE IN FEET

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO. 01216368.00 T3	DWN. BY: APH	ACAD FILE: PROJECTS/01216368
DSN. BY: CEH	CHK. BY: KWG	APP. BY: KWG

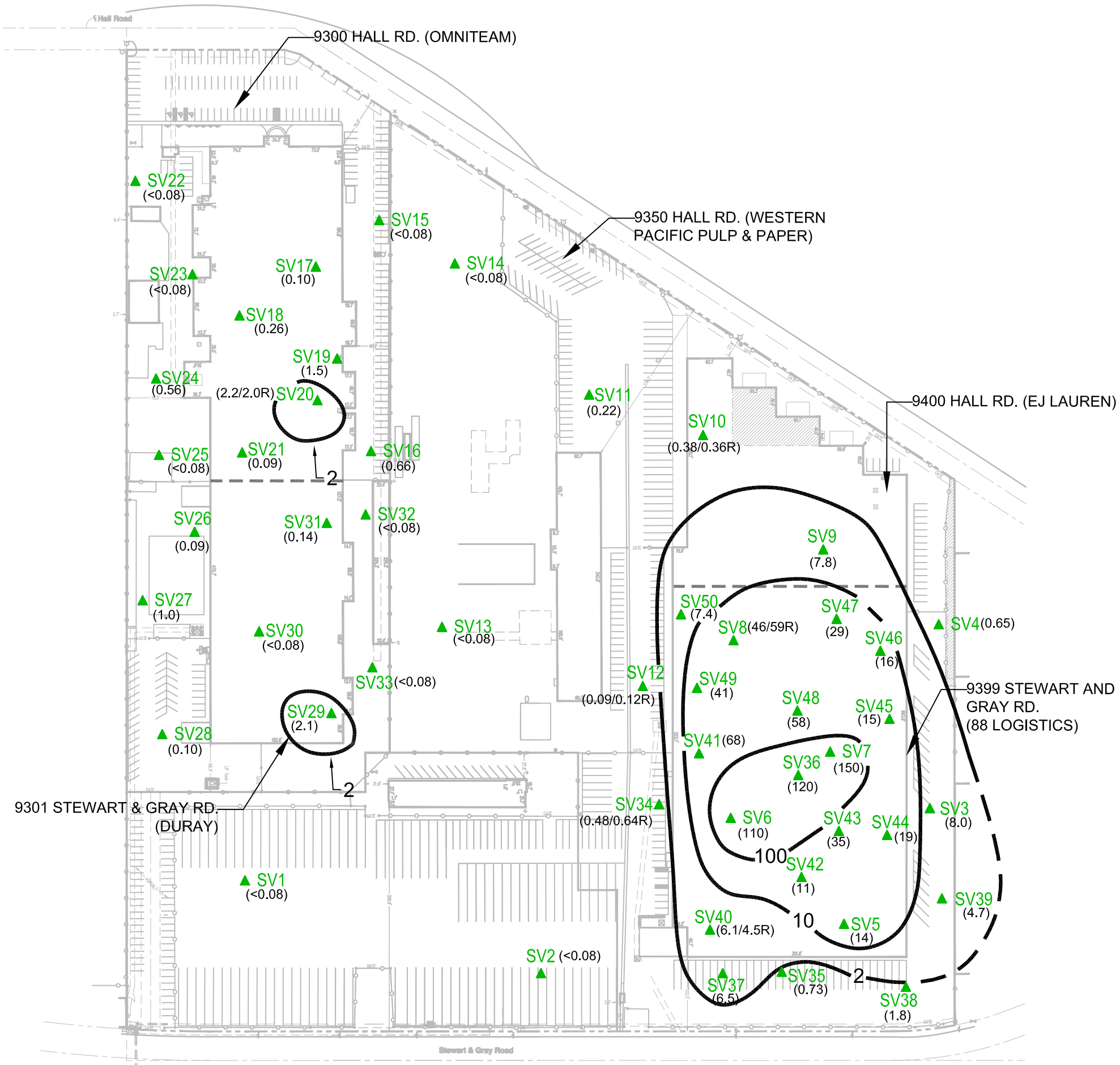
CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING ISOCONCENTRATION CONTOURS OF TRICHLOROETHENE AT 30 FEET BGS IN SOIL VAPOR

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 5

N: \PROJECTS\01216368.00\Task 3 – Phase II\Design\DOWNEY_recover.dwg Apr 07, 2017 – 3:4pm By: 4194ceh



LEGEND

▲	SOIL VAPOR PROBE LOCATIONS
⌒	ESTIMATED TETRACHLOROETHENE (PCE) CONTOUR OF EQUAL CONCENTRATIONAT 5 FEET BELOW GROUND SURFACE
(3.3)	PCE CONCENTRATION AT 5 FEET BELOW GROUND SURFACE IN MICROGRAMS PER LITER (µg/l)
(<0.08)	NOT DETECTED, LESS THAN REPORTING LIMIT
R	REPLICATE SAMPLE

N

GRAPHIC SCALE

0 150 300

SCALE IN FEET

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.	DWN. BY:	ACAD FILE:
01216368.00 T3	APH	PROJECTS/01216368
DSN. BY: CEH	CHK. BY: KWG	APP. BY: KWG

CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING ISOCONCENTRATION CONTOURS OF TETRACHLOROETHENE AT 5 FEET BGS IN SOIL VAPOR

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 6

\\lbc-fs01\DATA\PROJECTS\01216368.00\Task 3 - Phase II\Design\DOWNEY_recover.dwg Apr 12, 2017 - 3:4pm By: 2178aph

9300 HALL RD. (OMNITEAM)

9350 HALL RD. (WESTERN PACIFIC PULP & PAPER)

9400 HALL RD. (EJ LAUREN)

9399 STEWART AND GRAY RD. (88 LOGISTICS)

9301 STEWART & GRAY RD. (DURAY)

SV1
SV2 (<0.08)
SV3 (17)
SV4
SV5
SV6
SV7
SV8 (65)
SV9
SV10
SV11 (0.81)
SV12 (0.71)
SV13
SV14
SV15 (<0.08)
SV16 (0.44)
SV17
SV18
SV19
SV20
SV21
SV22
SV23 (0.09)
SV24
SV25 (0.17)
SV26
SV27 (1.8/1.1R)
SV28
SV29
SV30
SV31
SV32
SV33
SV34
SV35 (2.7)
SV36 (49)
SV37
SV38
SV39
SV40
SV41
SV42
SV43
SV44
SV45
SV46
SV47
SV48
SV49
SV50

50
2

LEGEND

▲	SOIL VAPOR PROBE LOCATIONS
⌒	ESTIMATED TETRACHLOROETHENE (PCE) CONTOUR OF EQUAL CONCENTRATIONAT 15 FEET BELOW GROUND SURFACE
(3.3)	PCE CONCENTRATION AT 15 FEET BELOW GROUND SURFACE IN MICROGRAMS PER LITER (µg/l)
(<0.08)	NOT DETECTED, LESS THAN REPORTING LIMIT
R	REPLICATE SAMPLE

N

GRAPHIC SCALE
0 150 300
SCALE IN FEET

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO. 01216368.00 T3	DWN. BY: APH	ACAD FILE: PROJECTS/01216368
DSN. BY: CEH	CHK. BY: KWG	APP. BY: KWG

CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING ISOCONCENTRATION CONTOURS OF TETRACHLOROETHENE AT 15 FEET BGS IN SOIL VAPOR

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 7

N: \PROJECTS\01216368.00\Task 3 – Phase II\Design\DOWNEY_recover.dwg Apr 07, 2017 – 3:4pm By: 4194ceh

9300 HALL RD. (OMNITEAM)

9350 HALL RD. (WESTERN PACIFIC PULP & PAPER)

9400 HALL RD. (EJ LAUREN)

9399 STEWART AND GRAY RD. (88 LOGISTICS)

9301 STEWART & GRAY RD. (DURAY)

SV1 SV2 SV3 SV4 SV5 SV6 SV7 SV8 SV9 SV10 SV11 SV12 SV13 SV14 SV15 SV16 SV17 SV18 SV19 SV20 SV21 SV22 SV23 SV24 SV25 SV26 SV27 SV28 SV29 SV30 SV31 SV32 SV33 SV34 SV35 SV36 SV37 SV38 SV39 SV40 SV41 SV42 SV43 SV44 SV45 SV46 SV47 SV48 SV49 SV50

SV8 (78)

SV34 (60)

SV36 (250)

SV3 (39)

SV35 (24)

50

200

Stewart & Gray Road

LEGEND

SOIL VAPOR PROBE LOCATIONS

ESTIMATED TETRACHLOROETHENE (PCE) CONTOUR OF EQUAL CONCENTRATIONAT 30 FEET BELOW GROUND SURFACE

(3.3) PCE CONCENTRATION AT 30 FEET BELOW GROUND SURFACE IN MICROGRAMS PER LITER (µg/l)

N

GRAPHIC SCALE

0 150 300

SCALE IN FEET

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.	DWN. BY:	ACAD FILE:
01216368.00 T3	APH	PROJECTS/01216368
DSN. BY:	CHK. BY:	APP. BY:
CEH	KWG	KWG

CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING ISOCONCENTRATION CONTOURS OF TETRACHLOROETHENE AT 30 FEET BGS IN SOIL VAPOR

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 8

N: \PROJECTS\01216368.00\Task 3 – Phase II\Design\DOWNEY_recover.dwg Apr 07, 2017 – 3:4pm By: 4194ceh

9300 HALL RD. (OMNITEAM)

GW1	
TCE	<1
CIS-1,2-DCE	<1
1,1-DCA	<1
1,1 - DCE	<1
TRANS-1,2-DCE	<1
MTBE	<1

9350 HALL RD. (WESTERN PACIFIC PULP & PAPER)

GW8	
TCE	<1
CIS-1,2-DCE	<1
1,1-DCA	<1
1,1 - DCE	<1
TRANS-1,2-DCE	<1
MTBE	3.37

9400 HALL RD. (EJ LAUREN)

GW6	
TCE	5.79
CIS-1,2-DCE	3.62
1,1-DCA	<1
1,1 - DCE	<1
TRANS-1,2-DCE	<1
MTBE	<1

GW3	
TCE	1.34
CIS-1,2-DCE	2.50
1,1-DCA	<1
1,1 - DCE	<1
TRANS-1,2-DCE	<1
MTBE	<1

9399 STEWART AND GRAY RD. (88 LOGISTICS)

GW7	
TCE	5.51
CIS-1,2-DCE	2.69
1,1-DCA	1.38
1,1 - DCE	1.12
TRANS-1,2-DCE	<1
MTBE	<1

9301 STEWART & GRAY RD. (DURAY)

GW2	
TCE	23.6
CIS-1,2-DCE	5.47
1,1-DCA	1.05
1,1 - DCE	1.64
TRANS-1,2-DCE	<1
MTBE	<1

GW4	
TCE	68.9
CIS-1,2-DCE	20.5
1,1-DCA	4.47
1,1 - DCE	4.77
TRANS-1,2-DCE	1.63
MTBE	<1

GW5	
TCE	7.00
CIS-1,2-DCE	3.27
1,1-DCA	3.54
1,1 - DCE	<1
TRANS-1,2-DCE	<1
MTBE	<1

LEGEND

GROUNDWATER SAMPLE LOCATIONS

GW5 — SAMPLE DESIGNATION	
TCE	7.00
CIS-1,2-DCE	3.27
1,1-DCA	3.54
1,1 - DCE	<1
TRANS-1,2-DCE	<1
MTBE	<1

CONCENTRATIONS IN MICROGRAMS PER LITER (µg/l)

TCE - TRICHLOROETHENE
CIS-1,2-DCE - CIS-1,2-DICHLOROETHENE
1,1-DCA - 1,1-DICHLOROETHANE
1,1-DCE - 1,1-DICHLOROETHENE
TRANS-1,2-DCE - TRANS-1,2-DICHLOROETHENE
MTBE - METHYL TERT-BUTYL ETHER

N

GRAPHIC SCALE
0 150 300
SCALE IN FEET

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CALIFORNIA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.	DWN. BY:	ACAD FILE:
01216368.00 T3	APH	PROJECTS/01216368
DSN. BY:	CHK. BY:	APP. BY:
CEH	KWG	KWG

CLIENT:
PROLOGIS, INC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SHEET TITLE:
SITE MAP SHOWING GROUNDWATER SAMPLE LOCATIONS AND VOC ANALYTICAL RESULTS

PROJECT TITLE:
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD
9301, 9333, AND 9399 STEWART & GRAY ROAD
DOWNEY, CALIFORNIA

DATE: MARCH 2017
SCALE: 1" = 150'
DRAWING NO. 9

N:\PROJECTS\01216368.00\Task 3 - Phase II\Design\DOWNEY_recover.dwg Apr 07, 2017 - 3:4pm By: 4194ceh

TABLES 1 THROUGH 4

TABLE 1
SUMMARY OF ANALYTICAL RESULTS FOR SOIL VAPOR SURVEY
DOWNEY INDUSTIAL CENTER
9300, 9350, AND 9400 HALL ROAD AND 9301, 9333, AND 9399 STEWART AND GRAY ROAD
DOWNEY, CALIFORNIA 90241

Sample Number (or Boring ID)	Sample Depth (feet bgs)	Sampling Date	Volatile Organic Compound (EPA Method 8260SV)									
			Trichloroethene (TCE)	Tetrachloroethene (PCE)	1,1-Dichloroethene	Chloroform	Benzene	1,1,1-Trichloroethane	1,1,2 Trichlorotrifluoroethane (F113)	Cis-1,2-Dichloroethene	Trans-1,2-dichloroethene	Vinyl Chloride
			Micrograms per liter (µg/l)									
SV1	5	2/15/2017	<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV2	5		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV3	5	2/17/2017	**24**	**8.0**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		**72**	**17**	<0.40	<0.08	<0.08	<0.40	<0.40	**0.64**	<0.40	<0.04
	30	3/16/2017	**320**	**39**	<2.0	<0.40	<0.40	<2.0	<2.0	**4.1**	<2.0	<0.20
SV4	5	2/15/2017	**1.5**	**0.65**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV5	5	2/17/2017	**69**	**14**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV6	5		**370**	**110**	<4.0	**1.2**	**0.99**	<4.0	<4.0	<4.0	<4.0	<0.40
SV7	5		**440**	**150**	<0.40	**3.4**	**0.08**	<0.40	<0.40	<0.40	<0.40	<0.04
SV8	5		**280**	**46**	<0.40	**1.4**	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	5	3/17/2017	**330**	**59**	<2.0	**1.2**	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
	15		**430**	**65**	<10	<2.0	<2.0	<10	<10	<2.0	<10	<1.0
	30	3/16/2017	**900**	**78**	<10	<2.0	<2.0	<10	<10	<10	<10	<1.0
SV9	5	2/17/2017	**4.4**	**7.8**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV10	5		<0.08	**0.38**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	5-REP		<0.08	**0.36**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV11	5	2/15/2017	<0.08	**0.22**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		**0.63**	**0.81**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV12	5		**1.0**	**0.09**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	5-REP		**1.4**	**0.12**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		**11**	**0.71**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV13	5		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV14	5		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	**0.53**	<0.40	<0.40	<0.04
SV15	5	2/17/2017	<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	**3.8**	<0.40	<0.40	<0.04
	15		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	**5.4**	<0.40	<0.40	<0.04
SV16	5		<0.08	**0.66**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		<0.08	**0.44**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV17	5	2/14/2017	**1.8**	**0.10**	**0.50**	<0.08	<0.08	**2.7**	**2.8**	<0.40	<0.40	<0.04
SV18	5		**11**	**0.26**	**0.51**	**0.33**	<0.08	**8.3**	**1.5**	<0.40	<0.40	<0.04
SV19	5		**4.7**	**1.5**	<0.40	<0.08	<0.08	<0.40	**0.54**	<0.40	<0.40	<0.04
SV20	5		**12**	**2.2**	<0.40	<0.08	<0.08	<0.40	**0.56**	<0.40	<0.40	<0.04
	5-REP		**11**	**2.0**	<0.40	<0.08	<0.08	<0.40	**0.48**	<0.40	<0.40	<0.04
SV21	5		**2.0**	**0.09**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV22	5		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	**1.0**	<0.40	<0.40	<0.04
SV23	5		<0.08	<0.08	<0.40	**0.09**	<0.08	<0.40	**0.70**	<0.40	<0.40	<0.04
	15		**0.41**	**0.09**	<0.40	**0.12**	<0.08	<0.40	**2.4**	<0.40	<0.40	<0.04
SV24	5		**0.55**	**0.56**	<0.40	<0.08	<0.08	<0.40	**0.47**	<0.40	<0.40	<0.04
SV25	5		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		**0.14**	**0.17**	<0.40	<0.08	**0.08**	<0.40	<0.40	<0.40	<0.40	<0.04
SV26	5		**0.13**	**0.09**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV27	5	2/17/2017	<0.08	**1.0**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		<0.08	**1.8**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15-REP		<0.08	**1.1**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV28	5	2/15/2017	<0.08	**0.10**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV29	5	2/14/2017	**0.21**	**2.1**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV30	5		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV31	5		<0.08	**0.14**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV32	5	2/15/2017	<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV33	5		<0.08	<0.08	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV34	5	3/16/2017	**2.7**	**0.48**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	5-REP		**3.8**	**0.64**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	30		**460**	**60**	**1.2**	<0.08	<0.08	<0.40	<0.40	**3.2**	**1.2**	**0.07**
SV35	5		**7.1**	**0.73**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		**42**	**2.7**	<0.50	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.05
	30		**260**	**24**	<2.0	<0.40	<0.40	<2.0	<2.0	**5.2**	<2.0	<0.20
SV36	5		**440**	**120**	<0.40	**2.3**	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
	15		**280**	**49**	<10	<2.0	<2.0	<10	<10	<10	<10	<1.0
	30		**1,300**	**250**	<4.0	**1.8**	<0.80	<4.0	<4.0	**7.4**	<4.0	<0.40
SV37	5	3/17/2017	**19**	**6.5**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV38	5		**6.7**	**1.8**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV39	5		**18**	**4.7**	<0.40	<0.08	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV40	5		**20**	**6.1**	<1.0	<0.20	<0.20	<1.0	<1.0	<1.0	<1.0	<0.10
	5-REP		**14**	**4.5**	<1.0	<0.20	<0.20	<1.0	<1.0	<1.0	<1.0	<0.10
SV41	5		**260**	**68**	<1.0	**1.2**	<0.20	<1.0	<1.0	<1.0	<1.0	<0.10
SV42	5		**120**	**11**	<2.0	<0.40	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
SV43	5		**280**	**35**	<2.0	**0.62**	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
SV44	5		**140**	**19**	<0.40	**0.15**	<0.08	<0.40	<0.40	<0.40	<0.40	<0.04
SV45	5		**120**	**15**	<2.0	<0.40	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
SV46	5		**110**	**16**	<2.0	<0.40	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
SV47	5		**140**	**29**	<2.0	**0.46**	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
SV48	5		**230**	**58**	<2.0	**0.84**	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
SV49	5		**190**	**41**	<2.0	**0.47**	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
SV50	5		**74**	**7.4**	<2.0	<0.40	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20
Residential DTSC-Recommended SL (Existing)			0.24	0.23	37	0.060	0.049	500	15,500	4.2	42	0.005
Commercial/Industrial DTSC-Recommended SL (Existing)			3.0	2.0	310	0.53	0.42	4,400	130,000	35	350	0.16
Residential DTSC-Recommended SL (Future)			0.48	0.46	73	0.12	0.10	1,000	31,000	8.3	83	0.010
Commercial/Industrial DTSC-Recommended SL (Future)			6.0	4.0	620	1.1	0.84	8,800	260,000	70	700	0.32

Notes:
bgs = below ground surface

DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and commercial/industrial land use scenarios at an existing and future building (June 2016, Referencing U.S. Environmental Protection Agency Regional Screening Level Reference Summary Table - May 2016).

Three purge volumes were used for all sampling points.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES - TPH, VOCS, & OCPS
DOWNEY INDUSTIAL CENTER
9300, 9350, AND 9400 HALL ROAD AND 9301, 9333, AND 9399 STEWART AND GRAY ROAD
DOWNEY, CALIFORNIA 90241

Sample Location	Sample Depth (feet bgs)	Date of Collection	TPH (EPA Method 8015M)			Volatile Organic Compounds (EPA Method 8260B)				Organochlorine Pesticides (EPA Method 8081A)
			TPH as Gasoline-range Hydrocarbons (C4 - C12)	TPH as Diesel-range Hydrocarbons (C13 - C22)	TPH as Motor Oil-range Hydrocarbons (C23 - C40)	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	1,1-Dichloroethene (1,1-DCE)	4,4-DDE
			milligrams per kilogram (mg/kg), equivalent to parts per million (ppm)			micrograms per kilogram (µg/kg), equivalent to parts per billion (ppb)				
SB1	1	February 14, 2017	<0.2	<5.0	<10	<1.2	<1.2	<1.2	<1.2	<2.0
	5		<0.2	<5.0	<10	**8.54**	**21.9**	<1	<1	--
	10		<0.2	<5.0	<10	**8.84**	**34.0**	<1	<1	--
SB2	5	February 17, 2017	<0.2	<5.0	<10	**1.67**	**1.71**	<1	<1	--
	10		<0.2	<5.0	<10	**1.11**	<0.9	<0.9	<0.9	--
	15		<0.2	<5.0	<10	**1.57**	**1.78**	<0.9	<0.9	--
	20		<0.2	<5.0	<10	**2.12**	**2.35**	<1	<1	--
SB3	5		<0.2	<5.0	<10	<1.1	<1.1	<1.1	<1.1	--
	10		<0.2	<5.0	<10	<1.3	<1.3	<1.3	<1.3	--
	15		<0.2	<5.0	<10	<0.9	**1.01**	<0.9	<0.9	--
	20		<0.2	<5.0	<10	<1.2	<1.2	<1.2	<1.2	--
SB4	1		<0.2	<5.0	<10	--	--	--	--	**5.51**
	5		<0.2	<5.0	<10	<0.9	<0.9	<0.9	<0.9	--
	10		<0.2	<5.0	<10	<0.9	<0.9	<0.9	<0.9	--
SB5	1		<0.2	**127**	**818**	--	--	--	--	--
	5		<0.2	<5.0	<10	<1	**1.39**	<1	<1	--
	10		<0.2	<5.0	<10	<1	<1	<1	<1	--
SB6	1		<0.2	<5.0	<10	<1.1	<1.1	<1.1	<1.1	--
	5		<0.2	<5.0	<10	<1	<1	<1	<1	--
	10		<0.2	<5.0	<10	<1.1	<1.1	<1.1	<1.1	--
SB7	1		<0.2	<5.0	<10	**1.48**	<1.1	<1.1	<1.1	--
	5		<0.2	**10.5**	**41.5**	<1	<1	<1	<1	--
	10		<0.2	<5.0	<10	--	--	--	--	--
SB8	1		<0.2	<5.0	<10	**5.99**	<1.1	<1.1	<1.1	--
	5		<0.2	<5.0	<10	**2.69**	<1.1	<1.1	<1.1	--
	10		<0.2	<5.0	<10	**1.75**	<1.1	<1.1	<1.1	--
SB9	1		<0.2	<5.0	<10	<1	<1	<1	<1	<2.0
	5		<0.2	<5.0	<10	<0.9	<0.9	<0.9	<0.9	--
	10		<0.2	<5.0	<10	<1.1	<1.1	<1.1	<1.1	--
SB10	1	February 14, 2017	<0.2	<5.0	<10	--	--	--	--	--
	5		<0.2	<5.0	<10	**6.78**	**9.00**	<1	<1	--
	10		<0.2	<5.0	<10	<1	**1.48**	<1	<1	--
SB11	1		<0.2	<5.0	<10	--	--	--	--	--
	5		<0.2	<5.0	<10	**7.78**	**16.3**	<1.2	<1.2	--
	10		<0.2	<5.0	<10	**1.27**	**4.20**	<0.9	<0.9	--
SB12	1		<0.2	<5.0	<10	--	--	--	--	--
	5		<0.2	<5.0	<10	**6.54**	**17.9**	<1.2	<1.2	--
	10		<0.2	<5.0	<10	**1.02**	**3.89**	<1	<1	--
SB13	1		<0.2	<5.0	<10	<1.3	<1.3	<1.3	<1.3	--
	5		<0.2	<5.0	<10	<1.1	<1.1	<1.1	<1.1	--
	10		<0.2	<5.0	<10	<1	<1	<1	<1	--
SB14	1		<0.2	<5.0	<10	<1	<1	<1	<1	--
	5		<0.2	<5.0	<10	<1	<1	<1	<1	--
	10		<0.2	<5.0	<10	<1	<1	<1	<1	--
	15		<0.2	<5.0	<10	<1	<1	<1	<1	--
SB15	5		<0.2	<5.0	<10	<1	<1	<1	<1	<2.0
	10		<0.2	<5.0	<10	<2.2	<2.2	<2.2	<2.2	--
	15		<0.2	<5.0	<10	<0.9	<0.9	<0.9	<0.9	--
	20		<0.2	<5.0	<10	<1	**1.05**	<1	<1	--
SB16	1		<0.2	<5.0	<10	<1	<1	<1	<1	--
	5		<0.2	<5.0	<10	<1	<1	<1	<1	--
	10		<0.2	<5.0	<10	<1	<1	<1	<1	--
SB17	5		<0.2	<5.0	<10	<1	**1.19**	<1	<1	--
	10		<0.2	<5.0	<10	<0.8	**1.29**	<0.8	<0.8	--
	15		<0.2	<5.0	<10	<1	**2.35**	<1	<1	--
	20		<0.2	<5.0	<10	<1	**3.47**	<1	<1	--
SB18	5		<0.2	<5.0	**42.8**	**8.05**	<1	<1	<1	--
	10		<0.2	<5.0	<10	**10.5**	<1	<1	<1	--
	15		<0.2	<5.0	<10	**3.53**	**2.86**	<1	<1	--
	20		<0.2	<5.0	<10	**2.29**	**2.96**	<0.9	<0.9	--
SB19	1	February 17, 2017	<0.2	<5.0	<10	<1	<1	<1	<1	--
	5		<0.2	<5.0	<10	<1	<1	<1	<1	--
	10		<0.2	<5.0	<10	<0.9	<0.9	<0.9	<0.9	--
SB20	1	February 14, 2017	<0.2	<5.0	<10	<1	<1	<1	<1	--
	5		<0.2	<5.0	<10	<1	<1	<1	<1	--
	10		<0.2	<5.0	<10	<1	<1	<1	<1	--
GW6	10	March 13, 2017	--	--	--	<1	<1	<1	<1	--
	20		--	--	--	<1	<1	<1	<1	--
	30		--	--	--	<1.4	<1.4	<1.4	<1.4	--
	40		--	--	--	**6.14**	**17.5**	<1	**1.89**	--
	50		--	--	--	<1.2	<1.2	<1.2	<1.2	--
	60		--	--	--	<1.1	<1.1	<1.1	<1.1	--
	70		--	--	--	<1	<1	<1	<1	--
	80		--	--	--	<1.1	<1.1	<1.1	<1.1	--
GW7	10	March 14, 2017	--	--	--	<0.9	<0.9	<0.9	<0.9	--
	20		--	--	--	<0.9	<0.9	<0.9	<0.9	--
	30		--	--	--	<1.1	<1.1	<1.1	<1.1	--
	40		--	--	--	<1	**2.33**	**2.57**	**1.13**	--
	50		--	--	--	<1.3	<1.3	<1.3	<1.3	--
	60		--	--	--	<1	<1	<1	<1	--
	70		--	--	--	<1	<1	<1	<1	--
	80		--	--	--	<0.9	<0.9	<0.9	<0.9	--
LARWQCB SSLs			500	1,000	10,000	--	--	--	--	--
DTSC-Recommended SL (Residential)			--	--	--	600	940	19	230	2,000
DTSC-Recommended SL (Commercial/Industrial)			--	--	--	2,700	6,000	86	1,000	9,300

Notes:

VOCs = Volatile organic compounds

bgs = Below ground surface

LARWQCB SSLs = Los Angeles Regional Water Quality Control Board Soil Screening Levels for soils located 20-150 feet above groundwater (Interim Site Assessment and Cleanup Guidebook. May 1996).

DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and industrial/commercial land use scenarios (June 2016, Referencing U.S. Environmental Protection Agency Regional Screening Level Summary Table - May 2016).

-- = Not calculated or analyzed

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES - METALS AND HEXAVALENT CHROMIUM

DOWNEY INDUSTIAL CENTER

9300, 9350, AND 9400 HALL ROAD AND 9301, 9333, AND 9399 STEWART AND GRAY ROAD

DOWNEY, CALIFORNIA 90241

Sample Number (or Boring ID)	Sample Depth (feet bgs)	Sampling Date	Hex Chromium (EPA Method 7199)	Title 22 Metals (EPA Method 6010B, except Mercury by EPA Method 7471A)																
			Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury (elemental)	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			Milligrams per kilogram (mg/kg), equivalent to parts per million (ppm)																	
SB1	1	February 14, 2017	--	<2.0	**5.22**	**143**	<1.0	<1.0	**21.7**	**9.60**	**20.7**	**4.39**	<0.05	<2.0	**14.6**	<2.0	<1.0	<2.0	**40.1**	**41.4**
	5		--	<2.0	<2.0	**99.9**	<1.0	<1.0	**25.1**	**7.87**	**20.9**	**7.53**	<0.05	<2.0	**13.2**	<2.0	<1.0	<2.0	**31.9**	**48.5**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB2	5		--	<2.0	<2.0	**90.4**	<1.0	<1.0	**13.2**	**7.99**	**16.2**	**2.39**	<0.05	<2.0	**9.02**	<2.0	<1.0	<2.0	**25.4**	**39.5**
	10		--	<2.0	**6.52**	**136**	<1.0	<1.0	**17.4**	**10.7**	**27.9**	<2.0	<0.05	<2.0	**15.3**	<2.0	<1.0	<2.0	**35.6**	**49.6**
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB4	1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5		--	<2.0	**7.45**	**59.8**	<1.0	<1.0	**7.97**	**4.52**	**6.46**	**2.03**	<0.05	<2.0	**3.43**	<2.0	<1.0	<2.0	**17.9**	**19.8**
	10		--	<2.0	**9.41**	**137**	<1.0	<1.0	**18.2**	**10.4**	**30.5**	<2	<0.05	<2.0	**16.1**	<2.0	<1.0	<2.0	**36.8**	**47.4**
SB5	1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5	February 17, 2017	--	<2.0	**6.02**	**75.1**	<1.0	<1.0	**16.9**	**7.18**	**13.2**	**3.34**	<0.05	<2.0	**10.2**	<2.0	<1.0	<2.0	**30.7**	**45.3**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB6	1		--	<2.0	**3.62**	**96.8**	<1.0	<1.0	**15.5**	**9.17**	**22.1**	<2.0	<0.05	<2.0	**12.2**	<2.0	<1.0	<2.0	**32.8**	**45.1**
	5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB7	1		--	<2.0	**8.00**	**100**	<1.0	<1.0	**17.3**	**8.47**	**21.9**	<2.0	<0.05	<2.0	**11.6**	<2.0	<1.0	<2.0	**34.9**	**42.8**
	5		--	<2.0	**6.22**	**134**	<1.0	<1.0	**20.4**	**11.9**	**33.0**	**3.56**	<0.05	<2.0	**17.1**	<2.0	<1.0	<2.0	**40.5**	**56.6**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB8	1		--	<2.0	**4.94**	**81.7**	<1.0	<1.0	**12.1**	**7.18**	**16.5**	**3.88**	<0.05	<2.0	**8.78**	<2.0	<1.0	<2.0	**26.2**	**34.0**
	5			<2.0	<2.0	**152**	<1.0	<1.0	**20.7**	**12.6**	**32.5**	<2.0	<0.05	<2.0	**17.5**	<2.0	<1.0	<2.0	**42.2**	**53.7**
	10			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB9	1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5		--	<2.0	**4.68**	**123**	<1.0	<1.0	**18.1**	**10.3**	**25.7**	<2.0	<0.05	<2.0	**13.7**	<2.0	<1.0	<2.0	**37.1**	**49.3**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB10	1		--	<2.0	**4.70**	**284**	<1.0	<1.0	**20.5**	**7.69**	**17.4**	**3.26**	<0.05	<2.0	**14.2**	<2.0	<1.0	<2.0	**39.2**	**43.9**
	5		--	<2.0	<2.0	**97.6**	<1.0	<1.0	**17.8**	**8.21**	**17.6**	**2.62**	<0.05	<2.0	**13.8**	<2.0	<1.0	<2.0	**31.7**	**44.2**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB11	1		--	<2.0	<2.0	**60.3**	<1.0	<1.0	**17.1**	**6.80**	**15.3**	**3.11**	<0.05	<2.0	**8.29**	<2.0	<1.0	<2.0	**37.1**	**41.6**
	5		--	<2.0	<2.0	**119**	<1.0	<1.0	**21.5**	**9.81**	**21.1**	**4.46**	<0.05	<2.0	**15.4**	<2.0	<1.0	<2.0	**34.4**	**52.3**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB12	1		--	<2.0	<2.0	**62.6**	<1.0	<1.0	**15.2**	**6.13**	**14.5**	**3.08**	<0.05	<2.0	**9.21**	<2.0	<1.0	<2.0	**35.6**	**37.0**
	5		--	<2.0	<2.0	**114.3**	<1.0	<1.0	**21.6**	**9.99**	**21.4**	**3.08**	<0.05	<2.0	**16.2**	<2.0	<1.0	<2.0	**35.9**	**52.0**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB13	1		--	<2.0	<2.0	**98.2**	<1.0	<1.0	**19.5**	**8.90**	**17.8**	**3.90**	<0.05	<2.0	**14.0**	<2.0	<1.0	<2.0	**35.8**	**47.6**
	5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB14	1		0.329	<2.0	**7.45**	**82.7**	<1.0	<1.0	**16.7**	**6.46**	**21.9**	**3.61**	<0.05	<2.0	**10.7**	<2.0	<1.0	<2.0	**29.8**	**38.9**
	5		<0.20	<2.0	**7.07**	**143**	<1.0	<1.0	**24.7**	**11.3**	**32.1**	**3.97**	<0.05	<2.0	**19.6**	<2.0	<1.0	<2.0	**41.4**	**54.3**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	February 14, 2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB15	5		--	<2.0	<2.0	**133**	<1.0	<1.0	**21.4**	**9.87**	**27.9**	**3.62**	<0.05	<2.0	**17.5**	<2.0	<1.0	<2.0	**36.1**	**48.4**
	10		--	<2.0	**6.31**	**156**	<1.0	<1.0	**22.3**	**11.2**	**29.3**	<2.0	<0.05	<2.0	**17.6**	<2.0	<1.0	<2.0	**40.4**	**54.3**
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB16	1		<0.20	<2.0	<2.0	**107**	<1.0	<1.0	**21.3**	**8.22**	**23.7**	<2.0	<0.05	<2.0	**14.1**	<2.0	<1.0	<2.0	**35.1**	**45.3**
	5		<0.20	<2.0	**4.31**	**172**	<1.0	<1.0	**25.6**	**12.3**	**31.8**	**3.25**	<0.05	<2.0	**20.3**	<2.0	<1.0	<2.0	**40.6**	**56.2**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB17	5		--	<2.0	**4.36**	**169**	<1.0	<1.0	**18.5**	**7.06**	**22.9**	<2.0	<0.05	<2.0	**14.0**	<2.0	<1.0	<2.0	**35.2**	**39.9**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB18	5		--	<2.0	**33.2**	**122**	<1.0	<1.0	**21.5**	**8.95**	**24.5**	**3.88**	<0.05	<2.0	**15.7**	<2.0	<1.0	<2.0	**36.3**	**48.3**
	10		--	--	**31.2**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	**10.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB19	1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5	February 17, 2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB20	1		--	<2.0	**48.7**	**107**	<1.0	<1.0	**20.5**	**8.00**	**23.1**	**3.72**	<0.05	<2.0	**14.2**	<2.0	<1.0	<2.0	**33.1**	**47.1**
	5	February 14, 2017	--	<2.0	**4.39**	**181**	<1.0	<1.0	**25.2**	**11.1**	**32.5**	<2.0	<0.05	<2.0	**21.1**	<2.0	<1.0	<2.0	**40.3**	**55.9**
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Typical Range for CA Soils*			--	0.15-1.95	0.6-11	133-1,400	0.25-2.7	0.05-1.7	23-1,579	2.7-46.9	9.1-96.4	12.4-97.1	0.1-0.9	0.1-9.6	9-509	0.015-0.430	0.1-8.3	0.17-1.1	39-288	88-236
Source				RSL	HERO	RSL	HERO	HERO	HERO	RSL	RSL	HERO	HERO	RSL	HERO	RSL	HERO	RSL	HERO	RSL
DTSC-Recommended SL (Residential)			0.3	31	0.11	15,000	15	5.2	36,000	23	3,100	80	1.0	390	490	390	390	0.78	390	23,000
DTSC-Recommended SL (Commercial/Industrial)			6.3	470	0.36	220,000	210	7.3	170,000	350	47,000	320	4.5	5,800	3,100	5,800	1,500	12	1,000	350,000
TTLC			--	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**			--	15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250
TCLP**			--	--	5	100	--	1	5	--	--	5	0.2	--	--	1	5	--	--	--

Notes:

bgs = below ground surface

* = Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Fampton, J.A., and Wright, H., 1996, *Background Concentrations of Trace and Major Elements in California Soils,* Kearney Foundation of Soil Science Special Report, Division of Agriculture and Natural Resources, University of California.

** = Values in milligrams per liter (mg/L)

DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and industrial/commercial land use scenarios (June 2016 Referencing U.S. Environmental Protection Agency Regional Screening Level Summary Table - May 2016).

TTLC = Total Threshold Limit Concentration as identified in Title 22 of the California Code of Regulations. Wastes with concentrations above this value are considered hazardous for the purposes of disposal under California regulations.

STLC = Soluble Threshold Limit Concentration, in mg/L, as identified in Title 22 of the California Code of Regulations. A concentration of ten times the STLC is sometimes used as a trigger to conduct further analysis (i.e., the soluble analysis) of a sample to determine disposal requirements. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under California regulations.

TCLP = Toxicity Characteristic Leaching Procedure concentration, in mg/L, as identified in the Code of Federal Regulations. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under federal regulations.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS FOR GRAB GROUNDWATER SAMPLES
VOLATILE ORGANIC COMPOUNDS
DOWNEY INDUSTRIAL CENTER
9300, 9350, AND 9400 HALL ROAD AND 9301, 9333, AND 9399 STEWART AND GRAY ROAD

Sample Location	Date of Collection	VOCs* (EPA Method 8260B)					
		Trichloroethene (TCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	trans-1,2-Dichloroethene (trans-1,2-DCE)	Methyl tert-butyl ether (MTBE)
		µg/L					
GW1	2/14/2017	<1	<1	<1	<1	<1	<1
GW2	2/13/2017	**23.6**	**5.47**	**1.05**	**1.64**	<1	<1
GW3	2/15/2017	**1.34**	**2.50**	<1	<1	<1	<1
GW4	2/13/2017	**68.9**	**20.5**	**4.47**	**4.77**	**1.63**	<1
GW5	2/14/2017	**7.00**	**3.27**	**3.54**	<1	<1	<1
GW6	3/13/2017	**5.79**	**3.62**	<1	<1	<1	<1
GW7	3/14/2017	**5.51**	**2.69**	**1.38**	**1.12**	<1	<1
GW8	3/13/2017	<1	<1	<1	<1	<1	**3.37**
MCL		5.0	6.0	5.0	6.0	10	13

Notes:
* = Volatile organic compounds (note: only constituents detected above method limits listed)
µg/L = micrograms per liter; equivalent to parts per billion
MCL = Maximum Contaminant Level

APPENDIX A

H&P LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Mobile Geochemistry Inc.

23 February 2017

Ms. Ashley Hutchens
SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806-6816

H&P Project: SCS021417-L6
Client Project: 01216368.03 / Downey

Dear Ms. Ashley Hutchens:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 2/14/2017 -2/17/2017 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV22-5	E702053-01	Vapor	14-Feb-17	14-Feb-17
SV24-5	E702053-02	Vapor	14-Feb-17	14-Feb-17
SV21-5	E702053-03	Vapor	14-Feb-17	14-Feb-17
SV20-5	E702053-04	Vapor	14-Feb-17	14-Feb-17
SV20-5 REP	E702053-05	Vapor	14-Feb-17	14-Feb-17
SV19-5	E702053-06	Vapor	14-Feb-17	14-Feb-17
SV18-5	E702053-07	Vapor	14-Feb-17	14-Feb-17
SV17-5	E702053-08	Vapor	14-Feb-17	14-Feb-17
SV23-5	E702053-09	Vapor	14-Feb-17	14-Feb-17
SV23-15	E702053-10	Vapor	14-Feb-17	14-Feb-17
SV25-5	E702053-11	Vapor	14-Feb-17	14-Feb-17
SV25-15	E702053-12	Vapor	14-Feb-17	14-Feb-17
SV26-5	E702053-13	Vapor	14-Feb-17	14-Feb-17
SV30-5	E702053-14	Vapor	14-Feb-17	14-Feb-17
SV31-5	E702053-15	Vapor	14-Feb-17	14-Feb-17
SV29-5	E702053-16	Vapor	14-Feb-17	14-Feb-17
SV13-5	E702069-01	Vapor	15-Feb-17	15-Feb-17
SV14-5	E702069-02	Vapor	15-Feb-17	15-Feb-17
SV28-5	E702069-03	Vapor	15-Feb-17	15-Feb-17
SV33-5	E702069-04	Vapor	15-Feb-17	15-Feb-17
SV32-5	E702069-05	Vapor	15-Feb-17	15-Feb-17
SV11-5	E702069-06	Vapor	15-Feb-17	15-Feb-17
SV11-15	E702069-07	Vapor	15-Feb-17	15-Feb-17
SV12-5	E702069-08	Vapor	15-Feb-17	15-Feb-17
SV12-5 REP	E702069-09	Vapor	15-Feb-17	15-Feb-17
SV12-15	E702069-10	Vapor	15-Feb-17	15-Feb-17
SV1-5	E702069-11	Vapor	15-Feb-17	15-Feb-17
SV4-5	E702069-12	Vapor	15-Feb-17	15-Feb-17

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV2-5	E702069-13	Vapor	15-Feb-17	15-Feb-17
SV2-15	E702069-14	Vapor	15-Feb-17	15-Feb-17
SV16-5	E702086-01	Vapor	17-Feb-17	17-Feb-17
SV16-15	E702086-02	Vapor	17-Feb-17	17-Feb-17
SV15-5	E702086-03	Vapor	17-Feb-17	17-Feb-17
SV15-15	E702086-04	Vapor	17-Feb-17	17-Feb-17
SV27-5	E702086-05	Vapor	17-Feb-17	17-Feb-17
SV27-15	E702086-06	Vapor	17-Feb-17	17-Feb-17
SV27-15 REP	E702086-07	Vapor	17-Feb-17	17-Feb-17
SV5-5	E702086-08	Vapor	17-Feb-17	17-Feb-17
SV7-5	E702086-09	Vapor	17-Feb-17	17-Feb-17
SV6-5	E702086-10	Vapor	17-Feb-17	17-Feb-17
SV10-5	E702088-01	Vapor	17-Feb-17	17-Feb-17
SV10-5 REP	E702088-02	Vapor	17-Feb-17	17-Feb-17
SV9-5	E702088-03	Vapor	17-Feb-17	17-Feb-17
SV3-5	E702088-04	Vapor	17-Feb-17	17-Feb-17
SV3-15	E702088-05	Vapor	17-Feb-17	17-Feb-17
SV8-5	E702088-06	Vapor	17-Feb-17	17-Feb-17

Batch EB71701 - February 17, 2017

The percent recoverieis for Dichlorodifluoromethane and Chloromethane fell below the method criteria in the continuing calibration verification. Any results for these analytes for samples included in this batch may be biased low.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

DETECTIONS SUMMARY

Sample ID: **SV22-5** Laboratory ID: **E702053-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**1.0**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV24-5** Laboratory ID: **E702053-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**0.47**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**0.55**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.56**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV21-5** Laboratory ID: **E702053-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**2.0**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.09**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV20-5** Laboratory ID: **E702053-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**0.56**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**12**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**2.2**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV20-5 REP** Laboratory ID: **E702053-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**0.48**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**11**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**2.0**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV19-5** Laboratory ID: **E702053-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**0.54**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**4.7**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**1.5**	0.08	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Sample ID: **SV18-5** Laboratory ID: **E702053-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Dichloroethene	**0.51**	0.40	ug/l	H&P 8260SV	
1,1,2 Trichlorotrifluoroethane (F113)	**1.5**	0.40	ug/l	H&P 8260SV	
Chloroform	**0.33**	0.08	ug/l	H&P 8260SV	
1,1,1-Trichloroethane	**8.3**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**11**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.26**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV17-5** Laboratory ID: **E702053-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Dichloroethene	**0.50**	0.40	ug/l	H&P 8260SV	
1,1,2 Trichlorotrifluoroethane (F113)	**2.8**	0.40	ug/l	H&P 8260SV	
1,1,1-Trichloroethane	**2.7**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**1.8**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.10**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV23-5** Laboratory ID: **E702053-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**0.70**	0.40	ug/l	H&P 8260SV	
Chloroform	**0.09**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV23-15** Laboratory ID: **E702053-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**2.4**	0.40	ug/l	H&P 8260SV	
Chloroform	**0.12**	0.08	ug/l	H&P 8260SV	
Trichloroethene	**0.41**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.09**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV25-5** Laboratory ID: **E702053-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV25-15** Laboratory ID: **E702053-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**0.08**	0.08	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Sample ID: **SV25-15** Laboratory ID: **E702053-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**0.14**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.17**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV26-5** Laboratory ID: **E702053-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**0.13**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.09**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV30-5** Laboratory ID: **E702053-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV31-5** Laboratory ID: **E702053-15**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.14**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV29-5** Laboratory ID: **E702053-16**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**0.21**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**2.1**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV13-5** Laboratory ID: **E702069-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV14-5** Laboratory ID: **E702069-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**0.53**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV28-5** Laboratory ID: **E702069-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.10**	0.08	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Sample ID: **SV33-5** Laboratory ID: **E702069-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV32-5** Laboratory ID: **E702069-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV11-5** Laboratory ID: **E702069-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.22**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV11-15** Laboratory ID: **E702069-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**0.63**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.81**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV12-5** Laboratory ID: **E702069-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**1.0**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.09**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV12-5 REP** Laboratory ID: **E702069-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**1.4**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.12**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV12-15** Laboratory ID: **E702069-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**11**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.71**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV1-5** Laboratory ID: **E702069-11**

Analyte	Result	Reporting Limit	Units	Method	Notes

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Sample ID: **SV1-5** Laboratory ID: **E702069-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV4-5** Laboratory ID: **E702069-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**1.5**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.65**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV2-5** Laboratory ID: **E702069-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV2-15** Laboratory ID: **E702069-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV16-5** Laboratory ID: **E702086-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.66**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV16-15** Laboratory ID: **E702086-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.44**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV15-5** Laboratory ID: **E702086-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**3.8**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV15-15** Laboratory ID: **E702086-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2 Trichlorotrifluoroethane (F113)	**5.4**	0.40	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Sample ID: **SV27-5** Laboratory ID: **E702086-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**1.0**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV27-15** Laboratory ID: **E702086-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**1.8**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV27-15 REP** Laboratory ID: **E702086-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**1.1**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV5-5** Laboratory ID: **E702086-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**69**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**14**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV7-5** Laboratory ID: **E702086-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**3.4**	0.08	ug/l	H&P 8260SV	
Benzene	**0.08**	0.08	ug/l	H&P 8260SV	
Trichloroethene	**440**	0.80	ug/l	H&P 8260SV	
Tetrachloroethene	**150**	0.80	ug/l	H&P 8260SV	

Sample ID: **SV6-5** Laboratory ID: **E702086-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**1.2**	0.80	ug/l	H&P 8260SV	
Benzene	**0.99**	0.80	ug/l	H&P 8260SV	
Trichloroethene	**370**	0.80	ug/l	H&P 8260SV	
Tetrachloroethene	**110**	0.80	ug/l	H&P 8260SV	

Sample ID: **SV10-5** Laboratory ID: **E702088-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.38**	0.08	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Sample ID: **SV10-5 REP** Laboratory ID: **E702088-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.36**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV9-5** Laboratory ID: **E702088-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**4.4**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**7.8**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV3-5** Laboratory ID: **E702088-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**24**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**8.0**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV3-15** Laboratory ID: **E702088-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**0.64**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**72**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**17**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV8-5** Laboratory ID: **E702088-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**1.4**	0.08	ug/l	H&P 8260SV	
Trichloroethene	**280**	1.0	ug/l	H&P 8260SV	
Tetrachloroethene	**46**	0.08	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV22-5 (E702053-01) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**1.0**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV22-5 (E702053-01) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.0 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV24-5 (E702053-02) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**0.47**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**0.55**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.56**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV24-5 (E702053-02) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV21-5 (E702053-03) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**2.0**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.09**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV21-5 (E702053-03) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV20-5 (E702053-04) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**0.56**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**12**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**2.2**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV20-5 (E702053-04) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.6 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV20-5 REP (E702053-05) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**0.48**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**11**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**2.0**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV20-5 REP (E702053-05) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.6 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV19-5 (E702053-06) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**0.54**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**4.7**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**1.5**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV19-5 (E702053-06) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.3 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV18-5 (E702053-07) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	**0.51**	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**1.5**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	**0.33**	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	**8.3**	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**11**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.26**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV18-5 (E702053-07) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV17-5 (E702053-08) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	**0.50**	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**2.8**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	**2.7**	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**1.8**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.10**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV17-5 (E702053-08) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.5 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV23-5 (E702053-09) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**0.70**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	**0.09**	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV23-5 (E702053-09) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.0 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV23-15 (E702053-10) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**2.4**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	**0.12**	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**0.41**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.09**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV23-15 (E702053-10) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.6 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV25-5 (E702053-11) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV25-5 (E702053-11) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV25-15 (E702053-12) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	**0.08**	0.08	"	"	"	"	"	"	
Trichloroethene	**0.14**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.17**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV25-15 (E702053-12) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.3 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV26-5 (E702053-13) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**0.13**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.09**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV26-5 (E702053-13) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV30-5 (E702053-14) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV30-5 (E702053-14) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.9 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV31-5 (E702053-15) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.14**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV31-5 (E702053-15) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.6 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV29-5 (E702053-16) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**0.21**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**2.1**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV29-5 (E702053-16) Vapor Sampled: 14-Feb-17 Received: 14-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71405	14-Feb-17	14-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV13-5 (E702069-01) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV13-5 (E702069-01) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.6 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV14-5 (E702069-02) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**0.53**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV14-5 (E702069-02) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.7 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV28-5 (E702069-03) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.10**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV28-5 (E702069-03) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV33-5 (E702069-04) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV33-5 (E702069-04) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.9 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV32-5 (E702069-05) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV32-5 (E702069-05) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.9 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV11-5 (E702069-06) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.22**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV11-5 (E702069-06) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV11-15 (E702069-07) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**0.63**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.81**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV11-15 (E702069-07) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.5 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-5 (E702069-08) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**1.0**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.09**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-5 (E702069-08) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-5 REP (E702069-09) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**1.4**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.12**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-5 REP (E702069-09) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*121 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.0 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-15 (E702069-10) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**11**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.71**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-15 (E702069-10) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.5 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5 (E702069-11) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5 (E702069-11) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*99.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.3 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4-5 (E702069-12) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**1.5**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.65**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4-5 (E702069-12) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5 (E702069-13) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5 (E702069-13) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.1 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-15 (E702069-14) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-15 (E702069-14) Vapor Sampled: 15-Feb-17 Received: 15-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71508	15-Feb-17	15-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.9 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV16-5 (E702086-01) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.66**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV16-5 (E702086-01) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV16-15 (E702086-02) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.44**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV16-15 (E702086-02) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV15-5 (E702086-03) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**3.8**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV15-5 (E702086-03) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.3 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV15-15 (E702086-04) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**5.4**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV15-15 (E702086-04) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.3 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV27-5 (E702086-05) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**1.0**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV27-5 (E702086-05) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.1 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV27-15 (E702086-06) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**1.8**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV27-15 (E702086-06) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.9 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV27-15 REP (E702086-07) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**1.1**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV27-15 REP (E702086-07) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.4 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-5 (E702086-08) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**69**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**14**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-5 (E702086-08) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.1 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV7-5 (E702086-09) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	**3.4**	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	**0.08**	0.08	"	"	"	"	"	"	
Trichloroethene	**440**	0.80	"	0.4	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	0.04	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**150**	0.80	"	0.4	"	"	"	"	
Dibromochloromethane	ND	0.40	"	0.04	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV7-5 (E702086-09) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV6-5 (E702086-10) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	4.0	ug/l	0.4	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	4.0	"	"	"	"	"	"	
Chloromethane	ND	4.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.40	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Chloroethane	ND	4.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	4.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	4.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	**1.2**	0.80	"	"	"	"	"	"	
Bromochloromethane	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.80	"	"	"	"	"	"	
Benzene	**0.99**	0.80	"	"	"	"	"	"	
Trichloroethene	**370**	0.80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
Bromodichloromethane	ND	4.0	"	"	"	"	"	"	
Dibromomethane	ND	4.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	
Toluene	ND	8.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.0	"	"	"	"	"	"	
Tetrachloroethene	**110**	0.80	"	"	"	"	"	"	
Dibromochloromethane	ND	4.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.80	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV6-5 (E702086-10) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	4.0	ug/l	0.4	EB71701	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	4.0	"	"	"	"	"	"	
Bromoform	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	4.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.0	"	"	"	"	"	"	
n-Propylbenzene	ND	4.0	"	"	"	"	"	"	
Bromobenzene	ND	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
n-Butylbenzene	ND	4.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	40	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	0.80	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*96.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 (E702088-01) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.38**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 (E702088-01) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 REP (E702088-02) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.36**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 REP (E702088-02) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV9-5 (E702088-03) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**4.4**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**7.8**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV9-5 (E702088-03) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5 (E702088-04) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**24**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**8.0**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5 (E702088-04) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-15 (E702088-05) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.64**	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**72**	0.40	"	0.2	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	0.04	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**17**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-15 (E702088-05) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.7 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5 (E702088-06) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	**1.4**	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**280**	1.0	"	0.5	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	0.04	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**46**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5 (E702088-06) Vapor Sampled: 17-Feb-17 Received: 17-Feb-17									
o-Xylene	ND	0.40	ug/l	0.04	EB71703	17-Feb-17	17-Feb-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71405 - EPA 5030										
Blank (EB71405-BLK1)				Prepared & Analyzed: 14-Feb-17						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71405 - EPA 5030										
Blank (EB71405-BLK1)				Prepared & Analyzed: 14-Feb-17						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.25*		*"*	*2.00*		*112*	*75-125*			
Surrogate: Toluene-d8	*2.03*		*"*	*2.00*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1.83*		*"*	*2.00*		*91.6*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71405 - EPA 5030										
LCS (EB71405-BS1)				Prepared & Analyzed: 14-Feb-17						
Dichlorodifluoromethane (F12)	3.5	0.50	ug/l	5.00		69.6	70-130			QL-1L
Vinyl chloride	4.3	0.05	"	5.00		86.6	70-130			
Chloroethane	4.2	0.50	"	5.00		83.4	70-130			
Trichlorofluoromethane (F11)	5.4	0.50	"	5.00		108	70-130			
1,1-Dichloroethene	4.9	0.50	"	5.00		99.0	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.8	0.50	"	5.00		116	70-130			
Methylene chloride (Dichloromethane)	7.2	0.50	"	5.00		144	70-130			QL-1H
trans-1,2-Dichloroethene	5.3	0.50	"	5.00		106	70-130			
1,1-Dichloroethane	5.0	0.50	"	5.00		99.4	70-130			
cis-1,2-Dichloroethene	5.4	0.50	"	5.00		108	70-130			
Chloroform	5.3	0.10	"	5.00		105	70-130			
1,1,1-Trichloroethane	5.0	0.50	"	5.00		100	70-130			
Carbon tetrachloride	5.4	0.10	"	5.00		108	70-130			
1,2-Dichloroethane (EDC)	5.4	0.10	"	5.00		108	70-130			
Benzene	4.8	0.10	"	5.00		95.2	70-130			
Trichloroethene	5.4	0.10	"	5.00		109	70-130			
Toluene	5.2	1.0	"	5.00		104	70-130			
1,1,2-Trichloroethane	5.9	0.50	"	5.00		118	70-130			
Tetrachloroethene	5.3	0.10	"	5.00		106	70-130			
Ethylbenzene	5.0	0.50	"	5.00		99.8	70-130			
1,1,1,2-Tetrachloroethane	5.5	0.50	"	5.00		111	70-130			
m,p-Xylene	10	0.50	"	10.0		104	70-130			
o-Xylene	4.8	0.50	"	5.00		96.9	70-130			
1,1,2,2-Tetrachloroethane	5.6	0.50	"	5.00		112	70-130			
Surrogate: Dibromofluoromethane	*2.63*		*"*	*2.50*		*105*	*75-125*			
Surrogate: Toluene-d8	*2.68*		*"*	*2.50*		*107*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.45*		*"*	*2.50*		*97.9*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71508 - EPA 5030										
Blank (EB71508-BLK1)				Prepared & Analyzed: 15-Feb-17						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71508 - EPA 5030										
Blank (EB71508-BLK1)				Prepared & Analyzed: 15-Feb-17						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.24*		*"*	*2.00*		*112*	*75-125*			
Surrogate: Toluene-d8	*2.02*		*"*	*2.00*		*101*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1.79*		*"*	*2.00*		*89.5*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71508 - EPA 5030										
LCS (EB71508-BS1)				Prepared & Analyzed: 15-Feb-17						
Dichlorodifluoromethane (F12)	3.6	0.50	ug/l	5.00		72.0	70-130			
Vinyl chloride	4.3	0.05	"	5.00		86.8	70-130			
Chloroethane	4.0	0.50	"	5.00		80.5	70-130			
Trichlorofluoromethane (F11)	5.4	0.50	"	5.00		109	70-130			
1,1-Dichloroethene	5.3	0.50	"	5.00		105	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.8	0.50	"	5.00		115	70-130			
Methylene chloride (Dichloromethane)	7.9	0.50	"	5.00		157	70-130			QL-1H
trans-1,2-Dichloroethene	5.5	0.50	"	5.00		111	70-130			
1,1-Dichloroethane	5.3	0.50	"	5.00		106	70-130			
cis-1,2-Dichloroethene	5.8	0.50	"	5.00		116	70-130			
Chloroform	5.5	0.10	"	5.00		111	70-130			
1,1,1-Trichloroethane	5.2	0.50	"	5.00		104	70-130			
Carbon tetrachloride	5.5	0.10	"	5.00		110	70-130			
1,2-Dichloroethane (EDC)	6.0	0.10	"	5.00		120	70-130			
Benzene	5.0	0.10	"	5.00		101	70-130			
Trichloroethene	5.7	0.10	"	5.00		113	70-130			
Toluene	5.6	1.0	"	5.00		113	70-130			
1,1,2-Trichloroethane	6.7	0.50	"	5.00		135	70-130			QL-1H
Tetrachloroethene	5.2	0.10	"	5.00		104	70-130			
Ethylbenzene	5.0	0.50	"	5.00		99.4	70-130			
1,1,1,2-Tetrachloroethane	5.7	0.50	"	5.00		114	70-130			
m,p-Xylene	10	0.50	"	10.0		103	70-130			
o-Xylene	4.9	0.50	"	5.00		97.8	70-130			
1,1,2,2-Tetrachloroethane	6.5	0.50	"	5.00		129	70-130			
Surrogate: Dibromofluoromethane	*2.72*		*"*	*2.50*		*109*	*75-125*			
Surrogate: Toluene-d8	*2.65*		*"*	*2.50*		*106*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.47*		*"*	*2.50*		*98.9*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71701 - EPA 5030										
Blank (EB71701-BLK1)				Prepared & Analyzed: 17-Feb-17						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71701 - EPA 5030										
Blank (EB71701-BLK1)				Prepared & Analyzed: 17-Feb-17						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.20*		*"*	*2.00*		*110*	*75-125*			
Surrogate: Toluene-d8	*2.04*		*"*	*2.00*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1.80*		*"*	*2.00*		*90.0*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71701 - EPA 5030										
LCS (EB71701-BS1)				Prepared & Analyzed: 17-Feb-17						
Dichlorodifluoromethane (F12)	3.7	0.50	ug/l	5.00		74.5	70-130			
Vinyl chloride	4.9	0.05	"	5.00		97.1	70-130			
Chloroethane	4.3	0.50	"	5.00		85.1	70-130			
Trichlorofluoromethane (F11)	5.8	0.50	"	5.00		116	70-130			
1,1-Dichloroethene	5.1	0.50	"	5.00		102	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	6.0	0.50	"	5.00		120	70-130			
Methylene chloride (Dichloromethane)	7.5	0.50	"	5.00		151	70-130			QL-1H
trans-1,2-Dichloroethene	5.5	0.50	"	5.00		109	70-130			
1,1-Dichloroethane	5.2	0.50	"	5.00		104	70-130			
cis-1,2-Dichloroethene	5.6	0.50	"	5.00		111	70-130			
Chloroform	5.4	0.10	"	5.00		107	70-130			
1,1,1-Trichloroethane	5.1	0.50	"	5.00		102	70-130			
Carbon tetrachloride	5.5	0.10	"	5.00		109	70-130			
1,2-Dichloroethane (EDC)	5.5	0.10	"	5.00		111	70-130			
Benzene	4.9	0.10	"	5.00		97.9	70-130			
Trichloroethene	5.7	0.10	"	5.00		113	70-130			
Toluene	5.4	1.0	"	5.00		108	70-130			
1,1,2-Trichloroethane	5.8	0.50	"	5.00		116	70-130			
Tetrachloroethene	5.4	0.10	"	5.00		108	70-130			
Ethylbenzene	5.1	0.50	"	5.00		101	70-130			
1,1,1,2-Tetrachloroethane	5.6	0.50	"	5.00		112	70-130			
m,p-Xylene	11	0.50	"	10.0		105	70-130			
o-Xylene	4.9	0.50	"	5.00		98.1	70-130			
1,1,2,2-Tetrachloroethane	5.6	0.50	"	5.00		112	70-130			
Surrogate: Dibromofluoromethane	*2.72*		*"*	*2.50*		*109*	*75-125*			
Surrogate: Toluene-d8	*2.66*		*"*	*2.50*		*107*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.38*		*"*	*2.50*		*95.1*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71703 - EPA 5030										
Blank (EB71703-BLK1)				Prepared & Analyzed: 17-Feb-17						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71703 - EPA 5030										
Blank (EB71703-BLK1)				Prepared & Analyzed: 17-Feb-17						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.20*		*"*	*2.00*		*110*	*75-125*			
Surrogate: Toluene-d8	*2.17*		*"*	*2.00*		*109*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1.97*		*"*	*2.00*		*98.7*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71703 - EPA 5030										
LCS (EB71703-BS1)				Prepared & Analyzed: 17-Feb-17						
Dichlorodifluoromethane (F12)	4.6	0.50	ug/l	5.00		91.6	70-130			
Vinyl chloride	4.5	0.05	"	5.00		89.5	70-130			
Chloroethane	4.8	0.50	"	5.00		95.1	70-130			
Trichlorofluoromethane (F11)	5.1	0.50	"	5.00		102	70-130			
1,1-Dichloroethene	5.0	0.50	"	5.00		100	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.5	0.50	"	5.00		111	70-130			
Methylene chloride (Dichloromethane)	4.8	0.50	"	5.00		96.2	70-130			
trans-1,2-Dichloroethene	5.2	0.50	"	5.00		103	70-130			
1,1-Dichloroethane	5.0	0.50	"	5.00		101	70-130			
cis-1,2-Dichloroethene	5.5	0.50	"	5.00		111	70-130			
Chloroform	5.4	0.10	"	5.00		109	70-130			
1,1,1-Trichloroethane	5.5	0.50	"	5.00		110	70-130			
Carbon tetrachloride	5.8	0.10	"	5.00		116	70-130			
1,2-Dichloroethane (EDC)	5.5	0.10	"	5.00		109	70-130			
Benzene	5.1	0.10	"	5.00		101	70-130			
Trichloroethene	5.6	0.10	"	5.00		111	70-130			
Toluene	4.6	1.0	"	5.00		91.4	70-130			
1,1,2-Trichloroethane	4.4	0.50	"	5.00		88.9	70-130			
Tetrachloroethene	5.9	0.10	"	5.00		117	70-130			
Ethylbenzene	5.6	0.50	"	5.00		112	70-130			
1,1,1,2-Tetrachloroethane	5.9	0.50	"	5.00		118	70-130			
m,p-Xylene	11	0.50	"	10.0		108	70-130			
o-Xylene	5.3	0.50	"	5.00		107	70-130			
1,1,2,2-Tetrachloroethane	4.3	0.50	"	5.00		86.8	70-130			
Surrogate: Dibromofluoromethane	*2.52*		*"*	*2.50*		*101*	*75-125*			
Surrogate: Toluene-d8	*2.41*		*"*	*2.50*		*96.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.60*		*"*	*2.50*		*104*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS021417-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.03 / Downey	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	23-Feb-17 11:19

Notes and Definitions

QL-1L	The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased low.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L15-279-R1

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 2/14/17
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 02126368.03
Lab Client Project Manager: Ashley Hutchens	Project Location: 9300 Hall Road
Lab Client Address: 3900 Kilroy Airport Way Suite 100	Report E-Mail(s): ahutchens@scsengineers.com kgreen@scsengineers.com cromanowski@scsengineers.com
Lab Client City, State, Zip: Long Beach, CA 90806	
Phone Number: 562-426-9544 3266	

Sample Receipt (Lab Use Only)

Date Rec'd: 2/14/17	Control #: 170115.03
H&P Project #	SCS021417-16
Lab Work Order #	E702053
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☐ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): Tom Ch
☐ Excel EDD ☐ Other EDD:_____	☐ 3-day Rush ☒ Mobile Lab	Signature:
☐ CA Geotracker Global ID:_____	☐ 48-Hr Rush ☐ Other:____	Date: 2/14/17

Additional Instructions to Laboratory: EB7/405

** Preferred VOC units (please choose one):*
☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV22-5		2/14/17	7:58	SV	6L SS			X						X						
SV24-5			8:25					X						X						
SV21-5			9:00					X						X						
SV20-5			9:32					X						X						
SV20-5 Rep			9:33					X						X						
SV19-5			10:25					X						X						
SV18-5			10:47					X						X						
SV17-5			11:17					X						X						
SV23-5			11:55					X						X						
SV23-15			12:58					X						X						

Approved/Relinquished by:	Company: SCS	Date: 2/14/17	Time: 2:20	Received by:	Company: H&P	Date: 2/14/17	Time: 15:30
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

**Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back*

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 2/14/17

Lab Client and Project Information

Lab Client/Consultant: SES Engineers	Project Name / #: 912.6368.03
Lab Client Project Manager: Ashley Hutchenry	Project Location: 9300 Hall Road
Lab Client Address: 3990 Lakeway Airport Way Suite 100	Report E-Mail(s):
Lab Client City, State, Zip: Long Beach, CA 90806	
Phone Number: 562.426.9544 3066	

Sample Receipt (Lab Use Only)

Date Rec'd: 2/14/17	Control #: 170115-03
H&P Project # SCG021417-L6	
Lab Work Order # 1702053	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): Tony Cha
Signature:
Date: 2/14/17

Additional Instructions to Laboratory:

** Preferred VOC units (please choose one):*
☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV25-5		2/14/17	13:24	SV	Glass 5L			X						X						
SV25-15			13:42					X						X						
SV26-5			14:01					X						X						
SV30-5			14:25					X						X						
SV31-5			14:56					X						X						
SV29-5			15:21					X						X						

Approved/Relinquished by:	Company: SES	Date: 2/14/17	Time: 330	Received by:	Company: H&P	Date: 2/14/17	Time: 3:20
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

**Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back*

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 2/15/17

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01216368.03
Lab Client Project Manager: Ashley Hutchings	Project Location: 9300 Hall Road
Lab Client Address: 3900 Kilroy Airport Way Suite 100	Report E-Mail(s):
Lab Client City, State, Zip: Long Beach CA 90806	
Phone Number: 562-426-9544 3066	

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☐ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): Tony Clay
☐ Excel EDD ☐ Other EDD:_____	☐ 3-day Rush ☒ Mobile Lab	Signature: Clayton
☐ CA Geotracker Global ID:_____	☐ 48-Hr Rush ☐ Other:____	Date: 2/15/17

Sample Receipt (Lab Use Only)

Date Rec'd: 2/15/17	Control #: 170115-03
H&P Project # SCS021417-16	
Lab Work Order # E702069	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Additional Instructions to Laboratory: EB 71508

* ***Preferred VOC units (please choose one):***
☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SV/m ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SV/m ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV13-5		2/15/17	7:30	SV	Glass 6L			X						X						
SV14-5			7:45					X						X						
SV28-5			8:33					X						X						
SV33-5			9:02					X						X						
SV32-5 2/15/17			9:23					X						X						
~~SV15-5~~ SV11-5			9:56					X						X						
~~SV15-15~~ SV11-15			10:10					X						X						
SV12-5			10:46					X						X						
SV12-5 Rep			10:47					X						X						
SV12-15			11:25					X						X						

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Clayton	SCS	2/15/17	2:17pm	Clayton	H&P	2/15/17	
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 2/15/17

Lab Client and Project Information

Lab Client/Consultant: SES Engineers	Project Name / #: 012163 68.03
Lab Client Project Manager: Ashley Hutchings	Project Location: 9300 Hall Road
Lab Client Address: 3900 Kilroy Airport Way Suite 140	Report E-Mail(s):
Lab Client City, State, Zip: Long Beach CA 90806	
Phone Number: 562-426-9544 3066	

Sample Receipt (Lab Use Only)

Date Rec'd: 2/15/17	Control #: 170115-03
H&P Project # SCS021417-16	
Lab Work Order # 1702069	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): Tam Chu
Signature:
Date: 2/15/17

Additional Instructions to Laboratory:

** Preferred VOC units (please choose one):*
☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV1-5		2/15/17	12:30	SV	Glass S.			X						X						
SV4-5			12:55					X						X						
SV2-5			13:21					X						X						
SV2-15			13:45					X						X						

Approved/Relinquished by:	Company: SES	Date: 2/15/17	Time: 2:17 pm	Received by:	Company: H&P	Date: 2/15/17	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

**Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back*

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 2/17/17
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01216368.03
Lab Client Project Manager: Ashley Hutchens	Project Location: 9300 Hall Road
Lab Client Address: 3900 Kilroy Airport Way, Suite 100	Report E-Mail(s):
Lab Client City, State, Zip: Long Beach, CA 90806	
Phone Number: 562-852-6004	

Sample Receipt (Lab Use Only)

Date Rec'd: 2/17/17	Control #: 170115.03
H&P Project # SCS021417-26	
Lab Work Order # E702086	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): Tam Cha
Signature: Cha
Date: 2/17/17

Additional Instructions to Laboratory: EB71701

Preferred VOC units (please choose one):
☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV16-5		2/17/17	6:34	SV	6L Summa			X						X						
SV16-15			6:53					X						X						
SV15-5	~~2/16/17~~		7:10					X						X						
SV15-15	~~not Required~~		7:28					X						X						
SV27-5			9:40					X						X						
SV27-15			9:57					X						X						
SV27-15 DUP			10:15					X						X						
SV5-5			10:57					X						X						
SV7-5			11:20					X						X						
SV6-5			12:17					X						X						

Approved/Relinquished by:	Company: SCS	Date: 2/17/17	Time: 1312	Received by:	Company: H&P	Date: 2/17/17	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 2/17/17
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01216368.03
Lab Client Project Manager: Ashley Hutchens	Project Location: 9300 Hall Rd Downey
Lab Client Address: 3900 Kilroy Airport Way Suite 100	Report E-Mail(s): ahutchens, kgreen cmomanowski@scsengineers.com
Lab Client City, State, Zip: Long Beach, CA 90806	
Phone Number: 562-426-9544	

Sample Receipt (Lab Use Only)

Date Rec'd: 2/17/17	Control #: 170115.03
H&P Project # SCS021417-L6	
Lab Work Order # E702088 / E371703	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): D. Do
Signature: [signature]
Date: 2/17/17

Additional Instructions to Laboratory:

* *Preferred VOC units (please choose one):*
☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2
1	SV10-5		2/17/17	1025	SV	6L Summa	87		X						X		
2	SV10-5 REP			1026			209		X						X		
3	SV9-5			1050			203		X						X		
4	SV3-5			1120			EA287		X						X		
5	SV3-15			1130			204		X						X		
6	SV8-5			1135			254		X						X		

Approved/Relinquished by: [signature]	[signature]	Company: SCS	Date: 2/17/17	Time: 1320	Received by: [signature]	Company: H&P	Date: 2/17/17	Time: 1320
Approved/Relinquished by:		Company:	Date:	Time:	Received by: [signature]	Company:	Date:	Time:
Approved/Relinquished by:		Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS021417-L6 Date: 2/14/17
Site Address: 9300 Hall Road Page: 1 of 2
Consultant: SCS Engineers H&P Rep(s): Tam James Troy
Consultant Rep(s): Chris Mike
Reviewed: DB
Scanned: RB

Equipment Info
Inline Gauge ID#: T37
Pump ID#:

Purge Volume Information
PV Amount: 3PV PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV22-5	109	50	7:58	5	7	1/8	12	.75	6	.75	✓	✓	189	<200	-	<200	0
2	SV24-5	226	50	8:25	5	7	1/8	12	.75	6	.75	✓	✓	189	<200	-	<200	0
3	SV21-5	232	50	9:00	5	7	1/8	12	.75	6	.75	✓	✓	189	<200	-	200	0
4	SV20-5	179	50	9:32	5	7	1/8	12	.75	6	.75	✓	✓	189	<200	-	<200	0
5	SV20-5 Rep	247	50	9:34	5	7	1/8	12	.75	6	.75	✓	✓	239	<200	-	<200	0
6	SV19-5	249	50	10:25	5	7	1/8	12	.75	6	.75	✓	✓	189	<200	-	<200	0
7	SV18-5	150	50	10:47	5	7	1/8	12	.75	6	.75	✓	✓	189	<200	-	<200	0
8	SV17-5	216	50	11:17	5	7	1/8	12	.75	6	.75	✓	✓	189	<200	-	<200	0
9	SV23-5	232	50	11:55	5	7	1/8	12	1.5	12	1.5	✓	✓	958	<200	-	<200	0
10	SV23-15	109	50	12:58	15	17	1/8	12	1.5	6	1.5	✓	✓	726	<200	-	<200	0
11	SV25-5	226	50	13:24	5	7	1/8	12	1.5	12	1.5	✓	✓	956	<200	-	<200	0
12	SV25-15	247	50	13:42	15	17	1/8	12	1.5	6	1.5	✓	✓	726	<200	-	<200	4

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS021417-L6 Date: 2/14/17

Site Address: 9320 Hull Road Page: 2 of 2

Consultant: SCS Engineers H&P Rep(s): Tom Jordan Trey

Consultant Rep(s): Chris Mike Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: T37
Pump ID#:

Purge Volume Information
PV Amount: 3PV PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound ☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV26-5	249	50	14:01	5	7	1/4	12	.75	6	.75	-	-	189	<200	-	<200	0
2	SV30-5	179	50	14:25	5	7	1/4	12	.75	6	.75	-	-	189	<200	-	<200	0
3	SV31-5	150	50	14:58	5	7	1/4	12	.75	6	.75	-	-	189	<200	-	<200	0
4	SV25-5	214	50	15:21	5	7	1/4	12	.75	6	.75	-	-	189	<200	-	<200	0
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS021417-L6 Date: 2/15/17

Site Address: 9300 Hall Road Page: 1 of 2

Consultant: SES Engineers H&P Rep(s): Tam Mike Reviewed: DB

Consultant Rep(s): Chris Scanned: DB

Equipment Info
Inline Gauge ID#: ~~737~~
Pump ID#:

Purge Volume Information
PV Amount: 3PV PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV13-5	216	50	7:30	5	7	1/8	12	.75	6	.75	-	-	189	200	-	200	0
2	SV14-5	179	50	7:45	5	7	1/8	12	1.5	6	1.5	-	-	697		-		0
3	SV28-5	247	50	8:33	5	7	1/8	12	1.5	6	1.5	-	-	697		-		0
4	SV33-5	232	50	9:02	5	7	1/8	12	1.5	6	1.5	-	-	697		-		0
5	SV32-5 R 2/15/17	249	50	9:23	5	7	1/8	12	1.5	6	1.5	-	-	697		-		0
6	~~SV15-5~~ SV11-5	150	50	9:56	5	7	1/8	12	1.5	12	1.5	-	-	958		-		0
7	~~SV16-15~~ SV11-15	149	50	10:10	15	17	1/8	12	1.5	6	1.5	-	-	726		-		0
8	SV12-5	226	50	10:46	5	7	1/8	12	1.5	12	1.5	-	-	958		-		0
9	SV12-5 Rep	179	50	10:47	5	7	1/8	12	1.5	12	1.5	-	-	1046		-		0
10	SV12-15	218	50	11:25	15	17	1/8	12	1.5	6	1.5	-	-	726		-		0
11	SV1-5	232	50	12:30	5	7	1/8	12	1.5	6	1.5	-	-	697		-		0
12	SV4-5	150	50	12:55	5	7	1/8	12	1.5	6	1.5	-	-	697		-		0

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS021417-C6 Date: 2/15/17

Site Address: 9300 HALL RD Page: 2 of 2

Consultant: SCS Engineers H&P Rep(s): Tam Mike

Consultant Rep(s): Chris

Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: T37
Pump ID#:

Purge Volume Information
PV Amount: 3 PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV2-5	247	50	1324	5	7	1/8	12	1.5	12	1.5	-	-	958	200	-	200	0
2	SV2-15	249	50	1335	15	17	1/8	12	1.5	6	1.5	-	✓	726	200	-	200	0
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS021417-L6 Date: 2/17/17

Site Address: 9300 Hall Road Page: 1 of 1

Consultant: SCS Engineers H&P Rep(s): Tom James Troy

Consultant Rep(s): Chris Andrew Danny

Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: T37
Pump ID#:

Purge Volume Information
PV Amount: 3PV PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV16-5	109	50	6:34	5	7	1/8	12	1.5	6	1.5	✓	–	697	200	–	200	0
2	SV16-15	179	50	6:53	15	17	↓	12	1.5	6	1.5	–	✓	726	↓	–	↓	0
3	SV15-5	232	50	7:10	5	7		12	1.5	12	1.5	–	✓	958		–		0
4	SV15-15	218	50	7:28	15	17		12	1.5	6	1.5	✓	✓	726		–		4
5	SV15-15	226	50	7:56	15	17		12	1.5	6	1.5	–	–	772		–		4
6	SV27-5	150	50	9:40	5	7	1/8	12	1.5	12	1.5	–	–	958	200	–	200	0
7	SV27-15	247	50	9:57	15	17	1/8	12	1.5	6	1.5	–	–	726	200	–	200	0
8	SV27-15 Rep	232	50	10:15	15	17	1/8	12	1.5	6	1.5	–	–	776	200	–	200	0
9	SV5-5	109	50	10:57	5	7	1/8	12	.75	6	.75	–	–	189	200	–	200	0
10	SV7-5	249	50	11:20	5	7	1/8	12	.75	6	.75	–	–	189	200	–	200	0
11	SV7-5 R	218	50	11:47	5	7	1/8	12	.75	6	.75	✓	✓	239	200	–	200	0
12	SV6-5	179	50	12:17	5	7	1/8	12	.75	6	.75	–	✓	189	200	–	200	0

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):
5) rerun

Mobile Geochemistry Inc.

FMS004
Revision: 3
Revised: 1/15/2016
Effective: 1/25/2016
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS021417 - LG
Date: 2/17/17
Site Address: 9300 Hall Rd Downey
Page: 1 of 1
Consultant: SCS Engineers
H&P Rep(s): D. Do, T. Chu
Reviewed: DB
Consultant Rep(s): ~~Brian~~ Chris Kromanowski
T. Taylor, J. Reske
Scanned: DB

Equipment Info
Inline Gauge ID#: T34
Pump ID#: N/A

Purge Volume Information
PV Amount: 3
PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV10-5	87	35	1025	5	7	1/8	12	0.75	6	0.75	✓	✓	189	<200	—	<200	0
2	SV10-5 REP	209	35	1026	5	7	1/8	12	0.75	6	0.75	✓	✓	—	—	—	<200	0
3	SV9-5	203	35	1050	5	7	1/8	12	0.75	6	0.75	✓	✓	189	<200	—	<200	0
4	SV3-5	EA287	35	1120	5	7	1/8	12	1.5	6	1.5	✓	✓	697	<200	—	<200	0
5	SV3-15	204	35	1130	15	17	1/8	12	1.5	6	1.5	✓	✓	726	<200	—	<200	0
6	SV8-5	254	35	1135	5	7	1/8	12	0.75	6	0.75	✓	✓	189	<200	—	<200	0
7	SV3-15	253	35	1210	15	17	1/8	12	1.5	6	1.5	✓	✓	—	—	—	<200	0
8	SV8-5	211	35	1235	5	7	1/8	12	0.75	6	0.75	✓	✓	—	—	—	<200	0
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):
7) rerun
8) rerun

H&P Mobile Geochemistry Inc.

22 March 2017

Ms. Ashley Hutchens
SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806-6816

H&P Project: SCS031617-L3
Client Project: 01216368.00 T4 / 9300 Hall Rd

Dear Ms. Ashley Hutchens:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 3/16/2017 -3/17/2017 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC). H&P is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV34-30	E703079-01	Vapor	16-Mar-17	16-Mar-17
SV34-5	E703079-02	Vapor	16-Mar-17	16-Mar-17
SV34-5 Rep	E703079-03	Vapor	16-Mar-17	16-Mar-17
SV35-30	E703079-04	Vapor	16-Mar-17	16-Mar-17
SV35-5	E703079-05	Vapor	16-Mar-17	16-Mar-17
SV35-15	E703079-06	Vapor	16-Mar-17	16-Mar-17
SV3-30	E703079-07	Vapor	16-Mar-17	16-Mar-17
SV36-30	E703079-08	Vapor	16-Mar-17	16-Mar-17
SV36-15	E703079-09	Vapor	16-Mar-17	16-Mar-17
SV36-5	E703079-10	Vapor	16-Mar-17	16-Mar-17
SV8-30	E703079-11	Vapor	16-Mar-17	16-Mar-17
SV37-5	E703088-01	Vapor	17-Mar-17	17-Mar-17
SV38-5	E703088-02	Vapor	17-Mar-17	17-Mar-17
SV39-5	E703088-03	Vapor	17-Mar-17	17-Mar-17
SV8-5	E703088-04	Vapor	17-Mar-17	17-Mar-17
SV8-15	E703088-05	Vapor	17-Mar-17	17-Mar-17
SV40-5	E703088-06	Vapor	17-Mar-17	17-Mar-17
SV40-5 Rep	E703088-07	Vapor	17-Mar-17	17-Mar-17
SV41-5	E703088-08	Vapor	17-Mar-17	17-Mar-17
SV42-5	E703088-09	Vapor	17-Mar-17	17-Mar-17
SV43-5	E703088-10	Vapor	17-Mar-17	17-Mar-17
SV44-5	E703088-11	Vapor	17-Mar-17	17-Mar-17
SV45-5	E703088-12	Vapor	17-Mar-17	17-Mar-17
SV46-5	E703088-13	Vapor	17-Mar-17	17-Mar-17
SV47-5	E703088-14	Vapor	17-Mar-17	17-Mar-17
SV48-5	E703088-15	Vapor	17-Mar-17	17-Mar-17
SV49-5	E703088-16	Vapor	17-Mar-17	17-Mar-17
SV50-5	E703088-17	Vapor	17-Mar-17	17-Mar-17

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project:	SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number:	01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager:	Ms. Ashley Hutchens	22-Mar-17 11:26

This page is intentionally left blank.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

DETECTIONS SUMMARY

Sample ID: **SV34-30** Laboratory ID: **E703079-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**0.07**	0.04	ug/l	H&P 8260SV	
1,1-Dichloroethene	**1.2**	0.40	ug/l	H&P 8260SV	
trans-1,2-Dichloroethene	**1.2**	0.40	ug/l	H&P 8260SV	
cis-1,2-Dichloroethene	**3.2**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**460**	0.80	ug/l	H&P 8260SV	
Tetrachloroethene	**60**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV34-5** Laboratory ID: **E703079-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**2.7**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.48**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV34-5 Rep** Laboratory ID: **E703079-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**3.8**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.64**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV35-30** Laboratory ID: **E703079-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**5.2**	2.0	ug/l	H&P 8260SV	
Trichloroethene	**260**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**24**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV35-5** Laboratory ID: **E703079-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**7.1**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**0.73**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV35-15** Laboratory ID: **E703079-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**42**	0.10	ug/l	H&P 8260SV	
Tetrachloroethene	**2.7**	0.10	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Sample ID: **SV3-30** Laboratory ID: **E703079-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**4.1**	2.0	ug/l	H&P 8260SV	
Trichloroethene	**320**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**39**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV36-30** Laboratory ID: **E703079-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**7.4**	4.0	ug/l	H&P 8260SV	
Chloroform	**1.8**	0.80	ug/l	H&P 8260SV	
Trichloroethene	**1300**	4.0	ug/l	H&P 8260SV	
Tetrachloroethene	**250**	0.80	ug/l	H&P 8260SV	

Sample ID: **SV36-15** Laboratory ID: **E703079-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**280**	2.0	ug/l	H&P 8260SV	
Tetrachloroethene	**49**	2.0	ug/l	H&P 8260SV	

Sample ID: **SV36-5** Laboratory ID: **E703079-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**2.3**	0.08	ug/l	H&P 8260SV	
Trichloroethene	**440**	0.80	ug/l	H&P 8260SV	
Tetrachloroethene	**120**	0.80	ug/l	H&P 8260SV	

Sample ID: **SV8-30** Laboratory ID: **E703079-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**900**	2.0	ug/l	H&P 8260SV	
Tetrachloroethene	**78**	2.0	ug/l	H&P 8260SV	

Sample ID: **SV37-5** Laboratory ID: **E703088-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**19**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**6.5**	0.08	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Sample ID: **SV38-5** Laboratory ID: **E703088-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**6.7**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**1.8**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV39-5** Laboratory ID: **E703088-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**18**	0.08	ug/l	H&P 8260SV	
Tetrachloroethene	**4.7**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV8-5** Laboratory ID: **E703088-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**1.2**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**330**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**59**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV8-15** Laboratory ID: **E703088-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**430**	2.0	ug/l	H&P 8260SV	
Tetrachloroethene	**65**	2.0	ug/l	H&P 8260SV	

Sample ID: **SV40-5** Laboratory ID: **E703088-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**20**	0.20	ug/l	H&P 8260SV	
Tetrachloroethene	**6.1**	0.20	ug/l	H&P 8260SV	

Sample ID: **SV40-5 Rep** Laboratory ID: **E703088-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**14**	0.20	ug/l	H&P 8260SV	
Tetrachloroethene	**4.5**	0.20	ug/l	H&P 8260SV	

Sample ID: **SV41-5** Laboratory ID: **E703088-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**1.2**	0.20	ug/l	H&P 8260SV	
Trichloroethene	**260**	0.80	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Sample ID: **SV41-5** Laboratory ID: **E703088-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**68**	0.20	ug/l	H&P 8260SV	

Sample ID: **SV42-5** Laboratory ID: **E703088-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**120**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**11**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV43-5** Laboratory ID: **E703088-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**0.62**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**280**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**35**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV44-5** Laboratory ID: **E703088-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**0.15**	0.08	ug/l	H&P 8260SV	
Trichloroethene	**140**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**19**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV45-5** Laboratory ID: **E703088-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**120**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**15**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV46-5** Laboratory ID: **E703088-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**110**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**16**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV47-5** Laboratory ID: **E703088-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**0.46**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**140**	0.40	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Sample ID: **SV47-5** Laboratory ID: **E703088-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**29**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV48-5** Laboratory ID: **E703088-15**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**0.84**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**230**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**58**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV49-5** Laboratory ID: **E703088-16**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroform	**0.47**	0.40	ug/l	H&P 8260SV	
Trichloroethene	**190**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**41**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV50-5** Laboratory ID: **E703088-17**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**74**	0.40	ug/l	H&P 8260SV	
Tetrachloroethene	**7.4**	0.40	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV34-30 (E703079-01) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	**0.07**	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	**1.2**	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1.2**	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3.2**	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**460**	0.80	"	0.4	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	0.04	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**60**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV34-30 (E703079-01) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV34-5 (E703079-02) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**2.7**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.48**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV34-5 (E703079-02) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*113 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV34-5 Rep (E703079-03) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**3.8**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.64**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV34-5 Rep (E703079-03) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*109 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV35-30 (E703079-04) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5.2**	2.0	"	"	"	"	"	"	
Chloroform	ND	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**260**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**24**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV35-30 (E703079-04) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV35-5 (E703079-05) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**7.1**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.73**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV35-5 (E703079-05) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*110 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV35-15 (E703079-06) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	**42**	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	**2.7**	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV35-15 (E703079-06) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	0.50	ug/l	0.05	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-30 (E703079-07) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4.1**	2.0	"	"	"	"	"	"	
Chloroform	ND	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**320**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**39**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-30 (E703079-07) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV36-30 (E703079-08) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	4.0	ug/l	0.4	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	4.0	"	"	"	"	"	"	
Chloromethane	ND	4.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.40	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Chloroethane	ND	4.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	4.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	4.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**7.4**	4.0	"	"	"	"	"	"	
Chloroform	**1.8**	0.80	"	"	"	"	"	"	
Bromochloromethane	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.80	"	"	"	"	"	"	
Trichloroethene	**1300**	4.0	"	2	"	"	"	"	
1,2-Dichloropropane	ND	4.0	"	0.4	"	"	"	"	
Bromodichloromethane	ND	4.0	"	"	"	"	"	"	
Dibromomethane	ND	4.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	
Toluene	ND	8.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.0	"	"	"	"	"	"	
Tetrachloroethene	**250**	0.80	"	"	"	"	"	"	
Dibromochloromethane	ND	4.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.80	"	"	"	"	"	"	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV36-30 (E703079-08) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	4.0	ug/l	0.4	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	4.0	"	"	"	"	"	"	
Bromoform	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	4.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.0	"	"	"	"	"	"	
n-Propylbenzene	ND	4.0	"	"	"	"	"	"	
Bromobenzene	ND	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
n-Butylbenzene	ND	4.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	40	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	0.80	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV36-15 (E703079-09) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	10	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Bromochloromethane	ND	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Trichloroethene	**280**	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Dibromomethane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
Toluene	ND	20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	10	"	"	"	"	"	"	
Tetrachloroethene	**49**	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV36-15 (E703079-09) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	10	ug/l	1	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"	
n-Propylbenzene	ND	10	"	"	"	"	"	"	
Bromobenzene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
2-Chlorotoluene	ND	10	"	"	"	"	"	"	
4-Chlorotoluene	ND	10	"	"	"	"	"	"	
tert-Butylbenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*117 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV36-5 (E703079-10) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	**2.3**	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**440**	0.80	"	0.4	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	0.04	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**120**	0.80	"	0.4	"	"	"	"	
Dibromochloromethane	ND	0.40	"	0.04	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV36-5 (E703079-10) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*114 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-30 (E703079-11) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	10	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Bromochloromethane	ND	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Trichloroethene	**900**	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Dibromomethane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
Toluene	ND	20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	10	"	"	"	"	"	"	
Tetrachloroethene	**78**	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-30 (E703079-11) Vapor Sampled: 16-Mar-17 Received: 16-Mar-17									
o-Xylene	ND	10	ug/l	1	EC71616	16-Mar-17	16-Mar-17	H&P 8260SV	
Styrene	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"	
n-Propylbenzene	ND	10	"	"	"	"	"	"	
Bromobenzene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
2-Chlorotoluene	ND	10	"	"	"	"	"	"	
4-Chlorotoluene	ND	10	"	"	"	"	"	"	
tert-Butylbenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*110 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV37-5 (E703088-01) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**19**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**6.5**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV37-5 (E703088-01) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*110 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV38-5 (E703088-02) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**6.7**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**1.8**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV38-5 (E703088-02) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV39-5 (E703088-03) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**18**	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**4.7**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV39-5 (E703088-03) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*113 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5 (E703088-04) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	**1.2**	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**330**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**59**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5 (E703088-04) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-15 (E703088-05) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	10	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Bromochloromethane	ND	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Trichloroethene	**430**	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Dibromomethane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
Toluene	ND	20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	10	"	"	"	"	"	"	
Tetrachloroethene	**65**	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-15 (E703088-05) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	10	ug/l	1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"	
n-Propylbenzene	ND	10	"	"	"	"	"	"	
Bromobenzene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
2-Chlorotoluene	ND	10	"	"	"	"	"	"	
4-Chlorotoluene	ND	10	"	"	"	"	"	"	
tert-Butylbenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV40-5 (E703088-06) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	1.0	ug/l	0.1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.10	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	1.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	**20**	0.20	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**6.1**	0.20	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV40-5 (E703088-06) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	1.0	ug/l	0.1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	0.20	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*113 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV40-5 Rep (E703088-07) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	1.0	ug/l	0.1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.10	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	1.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	**14**	0.20	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**4.5**	0.20	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV40-5 Rep (E703088-07) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	1.0	ug/l	0.1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	0.20	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV41-5 (E703088-08) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	1.0	ug/l	0.1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.10	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	1.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
Chloroform	**1.2**	0.20	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	**260**	0.80	"	0.4	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	0.1	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**68**	0.20	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV41-5 (E703088-08) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	1.0	ug/l	0.1	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	0.20	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*117 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV42-5 (E703088-09) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**120**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**11**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV42-5 (E703088-09) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV43-5 (E703088-10) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	**0.62**	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**280**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**35**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV43-5 (E703088-10) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*113 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV44-5 (E703088-11) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	**0.15**	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	**140**	0.40	"	0.2	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	0.04	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**19**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV44-5 (E703088-11) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	0.40	ug/l	0.04	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV45-5 (E703088-12) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**120**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**15**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV45-5 (E703088-12) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV46-5 (E703088-13) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**110**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**16**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV46-5 (E703088-13) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV47-5 (E703088-14) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	**0.46**	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**140**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**29**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV47-5 (E703088-14) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*114 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV48-5 (E703088-15) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	**0.84**	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**230**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**58**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV48-5 (E703088-15) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*113 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV49-5 (E703088-16) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	**0.47**	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**190**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**41**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV49-5 (E703088-16) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*122 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV50-5 (E703088-17) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
1,1-Difluoroethane (LCC)	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.20	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	2.0	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2.0	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	0.40	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.40	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.40	"	"	"	"	"	"	
Benzene	ND	0.40	"	"	"	"	"	"	
Trichloroethene	**74**	0.40	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	**7.4**	0.40	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	0.40	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV50-5 (E703088-17) Vapor Sampled: 17-Mar-17 Received: 17-Mar-17									
o-Xylene	ND	2.0	ug/l	0.2	EC71701	17-Mar-17	17-Mar-17	H&P 8260SV	
Styrene	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*121 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71616 - EPA 5030										
Blank (EC71616-BLK1)				Prepared & Analyzed: 16-Mar-17						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71616 - EPA 5030										
Blank (EC71616-BLK1)				Prepared & Analyzed: 16-Mar-17						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.15*		*"*	*2.00*		*108*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.01*		*"*	*2.00*		*100*	*75-125*			
Surrogate: Toluene-d8	*2.20*		*"*	*2.00*		*110*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.20*		*"*	*2.00*		*110*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71616 - EPA 5030										
LCS (EC71616-BS1)				Prepared & Analyzed: 16-Mar-17						
Dichlorodifluoromethane (F12)	5.2	0.50	ug/l	5.00		104	70-130			
Vinyl chloride	4.8	0.05	"	5.00		96.0	70-130			
Chloroethane	5.5	0.50	"	5.00		109	70-130			
Trichlorofluoromethane (F11)	5.5	0.50	"	5.00		110	70-130			
1,1-Dichloroethene	5.2	0.50	"	5.00		104	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	6.1	0.50	"	5.00		121	70-130			
Methylene chloride (Dichloromethane)	5.6	0.50	"	5.00		112	70-130			
trans-1,2-Dichloroethene	5.4	0.50	"	5.00		109	70-130			
1,1-Dichloroethane	5.4	0.50	"	5.00		107	70-130			
cis-1,2-Dichloroethene	5.9	0.50	"	5.00		117	70-130			
Chloroform	5.7	0.10	"	5.00		113	70-130			
1,1,1-Trichloroethane	5.2	0.50	"	5.00		104	70-130			
Carbon tetrachloride	5.8	0.10	"	5.00		116	70-130			
1,2-Dichloroethane (EDC)	6.2	0.10	"	5.00		124	70-130			
Benzene	5.4	0.10	"	5.00		109	70-130			
Trichloroethene	5.7	0.10	"	5.00		114	70-130			
Toluene	5.5	1.0	"	5.00		109	70-130			
1,1,2-Trichloroethane	6.2	0.50	"	5.00		123	70-130			
Tetrachloroethene	5.4	0.10	"	5.00		108	70-130			
Ethylbenzene	5.5	0.50	"	5.00		109	70-130			
1,1,1,2-Tetrachloroethane	6.1	0.50	"	5.00		123	70-130			
m,p-Xylene	12	0.50	"	10.0		116	70-130			
o-Xylene	5.7	0.50	"	5.00		115	70-130			
1,1,2,2-Tetrachloroethane	5.4	0.50	"	5.00		107	70-130			
Surrogate: Dibromofluoromethane	*2.89*		*"*	*2.50*		*116*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.81*		*"*	*2.50*		*112*	*75-125*			
Surrogate: Toluene-d8	*2.88*		*"*	*2.50*		*115*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.59*		*"*	*2.50*		*104*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71701 - EPA 5030										
Blank (EC71701-BLK1)				Prepared & Analyzed: 17-Mar-17						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71701 - EPA 5030										
Blank (EC71701-BLK1)				Prepared & Analyzed: 17-Mar-17						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.21*		*"*	*2.00*		*111*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.12*		*"*	*2.00*		*106*	*75-125*			
Surrogate: Toluene-d8	*2.22*		*"*	*2.00*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.12*		*"*	*2.00*		*106*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC71701 - EPA 5030										
LCS (EC71701-BS1)				Prepared & Analyzed: 17-Mar-17						
Dichlorodifluoromethane (F12)	5.2	0.50	ug/l	5.00		103	70-130			
Vinyl chloride	4.5	0.05	"	5.00		89.5	70-130			
Chloroethane	5.2	0.50	"	5.00		104	70-130			
Trichlorofluoromethane (F11)	5.5	0.50	"	5.00		109	70-130			
1,1-Dichloroethene	5.2	0.50	"	5.00		104	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	6.3	0.50	"	5.00		126	70-130			
Methylene chloride (Dichloromethane)	5.3	0.50	"	5.00		107	70-130			
trans-1,2-Dichloroethene	5.3	0.50	"	5.00		107	70-130			
1,1-Dichloroethane	5.2	0.50	"	5.00		104	70-130			
cis-1,2-Dichloroethene	5.6	0.50	"	5.00		112	70-130			
Chloroform	5.5	0.10	"	5.00		110	70-130			
1,1,1-Trichloroethane	5.3	0.50	"	5.00		106	70-130			
Carbon tetrachloride	6.0	0.10	"	5.00		121	70-130			
1,2-Dichloroethane (EDC)	5.8	0.10	"	5.00		115	70-130			
Benzene	5.4	0.10	"	5.00		107	70-130			
Trichloroethene	5.5	0.10	"	5.00		110	70-130			
Toluene	5.3	1.0	"	5.00		106	70-130			
1,1,2-Trichloroethane	5.6	0.50	"	5.00		112	70-130			
Tetrachloroethene	5.5	0.10	"	5.00		111	70-130			
Ethylbenzene	5.4	0.50	"	5.00		107	70-130			
1,1,1,2-Tetrachloroethane	6.0	0.50	"	5.00		121	70-130			
m,p-Xylene	11	0.50	"	10.0		113	70-130			
o-Xylene	5.5	0.50	"	5.00		111	70-130			
1,1,2,2-Tetrachloroethane	4.9	0.50	"	5.00		97.8	70-130			
Surrogate: Dibromofluoromethane	*2.83*		*"*	*2.50*		*113*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.69*		*"*	*2.50*		*108*	*75-125*			
Surrogate: Toluene-d8	*2.77*		*"*	*2.50*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.62*		*"*	*2.50*		*105*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS031617-L3	
3900 Kilroy Airport Way, Suite 100	Project Number: 01216368.00 T4 / 9300 Hall Rd	Reported:
Long Beach, CA 90806-6816	Project Manager: Ms. Ashley Hutchens	22-Mar-17 11:26

Notes and Definitions

LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 3/16/17
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01216368.00 T4
Lab Client Project Manager: Ashley Hutchens	Project Location: 9300 Hall Rd Downey
Lab Client Address: 3900 Kilroy Airport Way #100	Report E-Mail(s): ahutchens cromanowski@scsengineers.com
Lab Client City, State, Zip: Long Beach CA 90806	
Phone Number: 562-892-6054	

Sample Receipt (Lab Use Only)

Date Rec'd: 3/16/17	Control #: 170245.03
H&P Project # SCS031617-23	
Lab Work Order # E703079	
Sample Intact: ☐ Yes ☒ No ☐ See Notes Below	
Receipt Gauge ID:	Temp: 23°
Outside Lab:	
Receipt Notes/Tracking #:	Lab PM Initials:

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD: _____
☐ CA Geotracker Global ID: _____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other: ____

Sampler Information

Sampler(s): Thuy Nguyen
Signature: Thuy Nguyen
Date: 3/16/17

Additional Instructions to Laboratory:

25cc @ 2RLs.
Batch # EC71616

* Preferred VOC units (please choose one):
☑ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV34-30	@920/193	3/16/17	0842	SV	Glass 1yr.	175		X						X						
SV34-5			0904			171		X						X						
SV34-5-Rep			0922			240		X						X						
SV35-30			1034			193		X						X						
SV35-5			1050			171		X						X						
SV35-15			1116			252		X						X						
SV3-30			1136			175		X						X						
SV36-30	@1331/171		1225			240		X						X						
SV36-15	@1420/252		1239			193		X						X						
SV36-5	@1422/275		1304	SV		173		X						X						

Approved/Relinquished by:	Company: SCS	Date: 3/16/17	Time: 3:28pm	Received by:	Company: H&P	Date: 3/16/17	Time: 1530
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

H&P Mobile Geochemistry, Inc.

2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 3/16/17
Page 2 of 2

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers
Lab Client Project Manager: Ashley Hutchens
Lab Client Address: 3900 Kilroy Airport Way #100
Lab Client City, State, Zip: Long Beach CA 90806
Phone Number: 562-852-6004

Project Name / #: 01216368.00 T4
Project Location: 9300 Hall Rd Downey
Report E-Mail(s):

Sample Receipt (Lab Use Only)

Date Rec'd: 3/16/17
Control #: 170245.03
H&P Project #: SCS031617-23
Lab Work Order #: E703079
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below
Receipt Gauge ID:
Temp: 23°
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): Huy Nguyen
Signature:
Date: 3/16/17

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SV8-30		3/16/17	1455	SV	Glass 6yr.	240		X							X					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
	SCS	3/16/17	326		H&P	3/16/17	1530
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 08/18/2014

H&P Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 3/17/17
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01216368.00 T4
Lab Client Project Manager: Ashley Hutchens.	Project Location:
Lab Client Address: 3900 Kilroy Airport Way #100	Report E-Mail(s):
Lab Client City, State, Zip: Long Beach CA 90806	
Phone Number: 562-852-6004	

Sample Receipt (Lab Use Only)

Date Rec'd: 3/17/17	Control #: 170245.03
H&P Project #: SCS031617-23	
Lab Work Order #: E703088/EC71701	
Sample Intact: ☒ Yes ☑ No ☐ See Notes Below	
Receipt Gauge ID:	Temp: 23'
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): Thu Nguyen
Signature: Thunguyen
Date: 3/17/17

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SV37-5		3/17/17	0718	SV	Glass Syr.	173		✓							✓					
SV38-5		↓	0733	↓	↓	171		✓							✓					
SV39-5			0751			175		✓							✓					
SV8-5			0828			193		✓							✓					
SV8-15			0850			240		✓							✓					
SV40-5			0912			252		✓							✓					
SV40-5 ~~Dup~~ Rep use 3/22/17			0915			173		✓							✓					
SV41-5	@1018/193		0943			175		✓							✓					
SV42-5			1003			171		✓							✓					
SV43-5			1035			240		✓							✓					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
[signature]	SCS	3/17/17	1430	Thunguyen	H&P	3/17/17	1430

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 08/18/2014

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 3/17/17
Page 2 of 2

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01216368.00 T4
Lab Client Project Manager: Ashley Hutchens	Project Location: 9300 Hall Rd Downey
Lab Client Address: 3900 Kilroy Airport Way #100	Report E-Mail(s):
Lab Client City, State, Zip: Long Beach CA 90806	
Phone Number: 562-852-6004	

Reporting Requirements
- [x] Standard Report [ ] Level III [ ] Level IV
- [ ] Excel EDD [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround Time
- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [x] Mobile Lab
- [ ] 48-Hr Rush [ ] Other:

Sampler Information
Sampler(s): Thu Nguyen
Signature: Thunguyen
Date: 3/17/17

Sample Receipt (Lab Use Only)

Date Rec'd: 3/17/17	Control #: 170245.03
H&P Project #: SCS031617-23	
Lab Work Order #: E703088	
Sample Intact: [ ] Yes [x] No [ ] See Notes Below	
Receipt Gauge ID:	Temp: 23°
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Additional Instructions to Laboratory:
Batch: EC71701
- [ ] Check if Project Analyte List is Attached
- ** Preferred VOC units (please choose one):*
- [x] µg/L [ ] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [x] 8260SV [ ] TO-15	VOCs Short List / Project List [ ] 8260SV [ ] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [x] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SV44-5@1220	@1129/175	3/17/17	1057	SV	Glass Syr.	252		✓							✓					
SV45-5			1113			173		✓							✓					
SV46-5			1154			193		✓							✓					
SV47-5			1217			240		✓							✓					
SV48-5			1251			252		✓							✓					
SV49-5			1322			175		✓							✓					
SV50-5			1330			173		✓							✓					

Approved/Relinquished by: CL K	Company: SCS	Date: 3/17/17	Time: 1430	Received by: Thunguyen	Company: H&P	Date: 3/17/17	Time: 1430
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS031617-L3 Date: March 16, 2017

Site Address: 9300 Hall rd Poway ~~Downey~~ DB 3/22 Page: 1 of 2

Consultant: SCS Engineers H&P Rep(s): Thu Nguyen , Nicole Svoboda

Consultant Rep(s): Christopher Romanowski

Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: T28
Pump ID#:

Purge Volume Information
PV Amount: 3PV
PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV34-30	175	50	8:42	30	32	1/8	12	1.5	6	1.5	✓	✓	768	<200	-	<200	0
2	SV34-5	171	50	9:04	5	7	1/8	12	1.5	12	1.5	✓	✓	958	<200	-	<200	0
3	SV34-30R	193	50	9:20	30	32	1/8	12	1.5	6	1.5	✓	✓	818	<200	-	<200	0
4	SV34-5 Rep	240	50	9:22	5	7	1/8	12	1.5	12	1.5	✓	✓	1008	<200	-	<200	0
5	SV35-30	193	50	10:34	30	32	1/8	12	1.5	6	1.5	✓	✓	768	<200	-	<200	0
6	SV35-5	171	50	10:50	5	7	1/8	12	1.5	12	1.5	✓	✓	958	<200	-	<200	0
7	SV35-15	252	50	11:16	15	17	1/8	12	1.5	12	1.5	✓	✓	986	<200	-	<200	0
8	SV3-30	175	50	11:36	30	32	1/8	12	1.5	6	1.5	✓	✓	768	<200	-	<200	1
9	SV36-30	240	50	12:25	30	32	1/8	12	1.5	6	1.5	✓	✓	768	<200	-	<200	0
10	SV36-15	193	50	12:39	15	17	1/8	12	1.5	12	1.5	✓	✓	986	<200	-	<200	0
11	SV36-5	173	50	13:04	5	7	1/8	12	1.5	12	1.5	✓	✓	958	<200	-	<200	0
12	SV36-30 r	171	50	13:31	30	32	1/8	12	1.5	6	1.5	✓	✓	818	<200	-	<200	0

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):
- SV34-15: high Vac ⇒ can't collect sample ~~even~~ even though w/ a ~~second~~ reset probe. Wait @ South

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: **SCS031617-L3** Date: **March 16, 2017**

Site Address: **9300 Hall rd ~~Poway~~ Downey** (DP 3/22) Page: 2 of 2

Consultant: **SCS Engineers** H&P Rep(s): **Thu Nguyen , Nicole Svoboda**

Consultant Rep(s): **Christopher Romanowski**

Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: T28
Pump ID#:

Purge Volume Information
PV Amount: **3PV**
PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV36-15 r	252	50	14:20	15	17	1/8	12	1.5	12	1.5	✓	✓	1036	<200	-	<200	0
2	SV36-5 r	175	50	14:22	5	7	1/8	12	1.5	12	1.5	✓	✓	1008	<200	-	<200	0
3	SV8-30	240	50	14:55	30	32	1/8	12	1.5	6	1.5	✓	✓	768	<200	-	<200	0
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

H&P Mobile Geochemistry Inc.

FMS004
Revision: 3
Revised: 1/15/2016
Effective: 1/25/2016
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: **SCS031617-L3** Date: **March 17, 2017**

Site Address: **9300 Hall rd ~~Poway~~** Downey 3/22 Page: ~~2~~ 1 of 2

Consultant: **SCS Engineers** H&P Rep(s): **Thu Nguyen , Nicole Svoboda** *Reviewed:* DB

Consultant Rep(s): **Christopher Romanowski** *Scanned:* DB

Equipment Info
Inline Gauge ID#: T28
Pump ID#: 013

Purge Volume Information
PV Amount: **3PV**
PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☐ H_2O
1	SV37-5	173	50	7:18	5	7	1/8	12	1.5	6	1.5	✓	✓	697	<200	-	<200	0
2	SV38-5	171	50	7:33	5	7	1/8	12	1.5	6	1.5	✓	✓	697	<200	3:29	<200	0
3	SV39-5	175	50	7:51	5	7	1/8	12	1.5	6	1.5	✓	✓	697	<200	3:29	<200	0
4	SV8-5	193	50	8:28	5	7	1/8	12	1.5	12	1.5	✓	✓	958	<200	4:47	<200	0
5	SV8-15	240	50	8:50	15	17	1/8	12	1.5	12	1.5	✓	✓	986	<200	4:56	<200	0
6	SV40-5	252	50	9:12	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
7	SV40-5 ~~Dup~~ Rep 3/22	173	50	9:15	15	17	1/8	12	0.75	12	0.75	✓	✓	239	<200	-	<200	0
8	SV41-5	175	50	9:43	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
9	SV42-5	171	50	10:03	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
10	SV41-5 R	193	50	10:18	15	17	1/8	12	0.75	12	0.75	✓	✓	239	<200	-	<200	0
11	SV43-5	240	50	10:35	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
12	SV44-5	252	50	10:57	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):
* SV34-15 : still have too high VAC. No sample @ that probe.

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: **SCS031617-L3** Date: **March 17, 2017**

Site Address: **9300 Hall rd ~~Poway~~** Downey (DB) 3/22 Page: 2 of 2

Consultant: **SCS Engineers** H&P Rep(s): **Thu Nguyen , Nicole Svoboda**

Consultant Rep(s): **Christopher Romanowski**

Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: T28
Pump ID#: 013

Purge Volume Information
PV Amount: **3PV**
PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☐ H_2O
1	SV45-5	173	50	11:13	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
2	SV44-5 R	175	50	11:29	15	17	1/8	12	0.75	12	0.75	✓	✓	239	<200	-	<200	0
3	SV46-5	193	50	11:54	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
4	SV47-5	240	50	12:17	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
5	SV44-5 RR	171	50	12:20	15	17	1/8	12	1.5	12	1.5	✓	✓	289	<200	-	<200	0
6	SV48-5	252	50	12:51	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
7	SV49-5	175	50	13:22	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
8	SV50-5	173	50	13:30	15	17	1/8	12	0.75	12	0.75	✓	✓	189	<200	-	<200	0
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

APPENDIX B

SOIL BORING LOGS

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: GW1

Downey Industrial Center

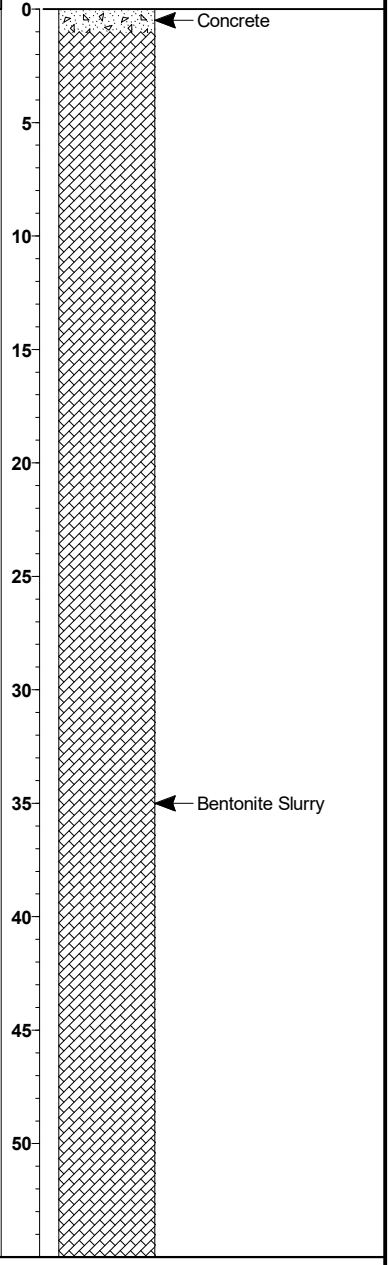
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:
Soil samples collected for lithological purposes only. Sampling started at 30' bgs.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
9	30		GW1-30			SP		Light Gray, Fine to Medium Sand, Moist.
12	40		GW1-40			SP		Light Gray, Fine to Medium Sand, Moist.
15	50		GW1-50			SP		Light Gray, Fine to Medium Sand, Moist.

Completion Detail



Drilling Company: **Cascade Environmental**
Drilling Method: **Hollow Stem Auger**
Logged By: **C. Hernandez**
Sampling Method: **Split Spoon**

Date Started: **2/14/17**
Date Ended: **2/14/17**
Boring Diameter: **8"**

Depth to Water: **84.7 ft**
Total Depth: **85.0 ft**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: GW1

Downey Industrial Center

JOB NUMBER: 01216368.00

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
17	55							
18	60		GW1-60	50x6		SW		Light Gray, Fine to Very Coarse Sand with 15% Coarse Gravel, Moist.
19								
20	65							
21	70		GW1-70	25 29 39		SW		Light Gray, Fine to Coarse Sand with 15% Coarse Gravel, Moist.
22								
23	75							
24	80		GW1-80	22 26 33		SW		Light Gray, Fine to Coarse Sand with 15% Coarse Gravel, Moist.
25								
26	85							
27	90							
28								
29	95							
30								
31	100							
32	105							
33								
34	110							
35	115							
36								
	120							

Completion Detail

55
60
65 — Bentonite Slurry
70
75
80
85
90
95
100
105
110
115
120

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: GW2

Downey Industrial Center

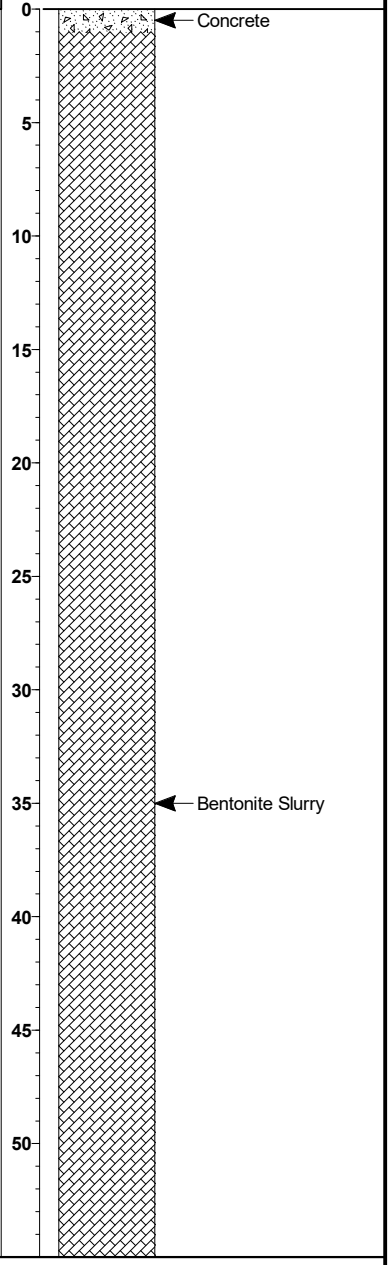
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:
Soil samples collected for lithological purposes only. Sampling started at 30' bgs.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
9	30		GW2-30	12 20 27	0.0	SM		Gray, Silty (15%) Very Fine to Fine Sand, Slightly Moist.
12	40		GW2-40	20 23 28	0.0	CL		Dark Gray, Clay, Slightly Moist.
15	50		GW2-50	22 28 32	0.0	CL		Gray-Brown, Sandy (35% Very Fine to Fine Sand) Clay, Slightly Moist.

Completion Detail



Drilling Company: **Cascade Environmental**
Drilling Method: **Hollow Stem Auger**
Logged By: **C. Romanowski**
Sampling Method: **Split Spoon**

Date Started: **2/13/17**
Date Ended: **2/13/17**
Boring Diameter: **8"**

Depth to Water: **80.6 ft**
Total Depth: **85.0 ft**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: GW2

Downey Industrial Center

JOB NUMBER: 01216368.00

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
17	55							
18	60		GW2-60	25 27 45	0.0	SW		Gray, Very Fine to Coarse Sand, Slightly Moist.
19								
20	65							
21	70		GW2-70	30 32 42	0.0	SW		Light Gray, Very Fine to Coarse Sand, Slightly Moist.
22								
23	75							
24	80		GW2-80	33 39 40	0.0	SW		Light Gray, Very Fine to Coarse Sand, Wet.
25								
26	85							
27	90							
28								
29	95							
30								
31	100							
32	105							
33								
34	110							
35	115							
36								
	120							

Completion Detail

55 60 65 70 75 80 85 90 95 100 105 110 115 120

Bentonite Slurry

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: GW6

Downey Industrial Center

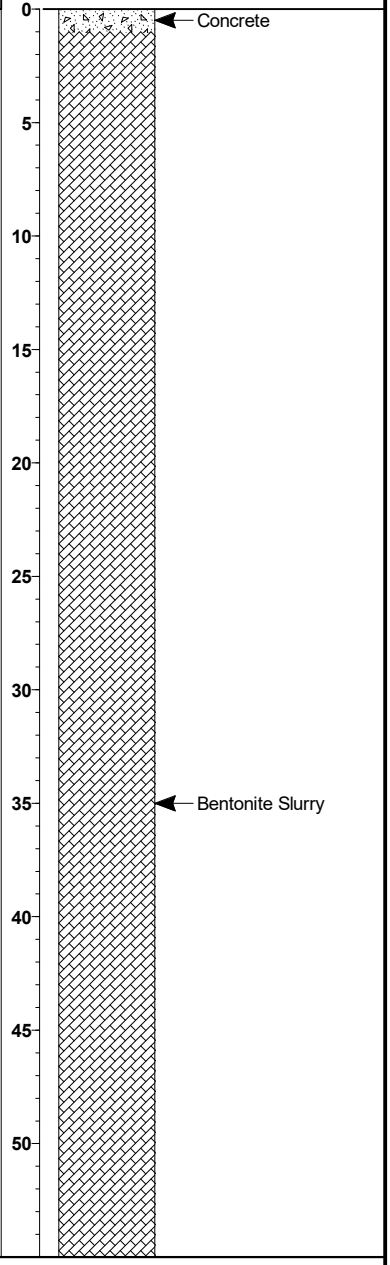
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
3	10		GW6-10	4 5 5	0.0	CL		Gray, Clay, Slightly Moist.
6	20		GW6-20	5 7 12	0.0	ML		Gray, Silt with 10% Very Fine Sand, Slightly Moist.
9	30		GW6-30	6 8 8	0.0	SW		Gray, Very Fine to Medium Sand, Slightly Moist.
12	40		GW6-40	7 10 11	0.0	SW		Gray, Very Fine to Medium Sand, Slightly Moist.
15	50		GW6-50	9 13 15	0.0	SW		Gray, Very Fine to Medium Sand, Slightly Moist.

Completion Detail



Drilling Company: **Cascade Environmental**
Drilling Method: **Hollow Stem Auger**
Logged By: **C. Romanowski**
Sampling Method: **Split Spoon**

Date Started: **3/13/17**
Date Ended: **3/13/17**
Boring Diameter: **8"**

Depth to Water: **82.3 ft**
Total Depth: **85.0 ft**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

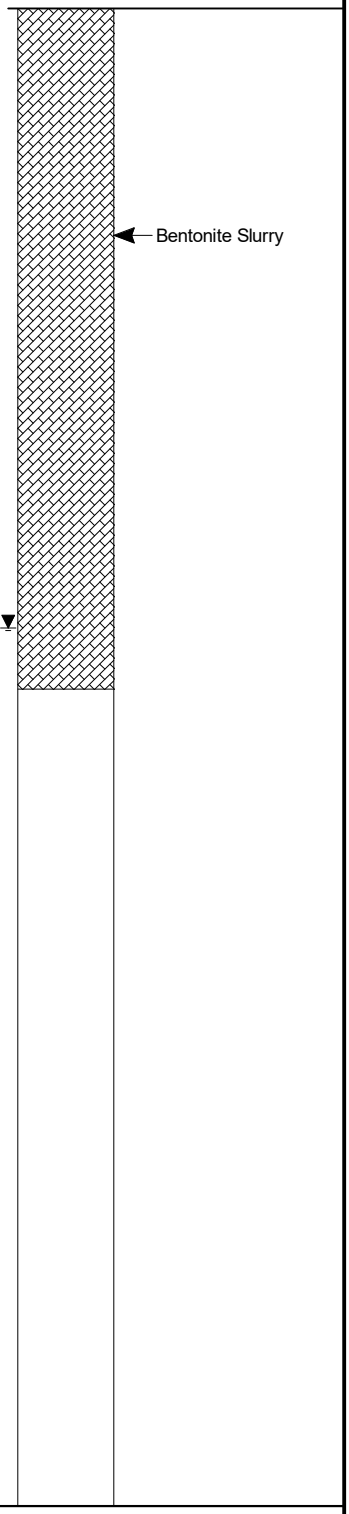
BORING NUMBER: GW6

Downey Industrial Center

JOB NUMBER: 01216368.00

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
17	55							
18	60		GW6-60	13 15 21	0.0	SW		Tan, Fine to Coarse Sand, Slightly Moist.
19								
20	65							
21								
	70		GW6-70	16 17 24	0.0	SP		Gray, Medium to Coarse Sand, Slightly Moist.
22								
23	75							
24								
	80		GW6-80	15 25 27	0.0	SW		Tan, Fine to Coarse Sand, Wet.
25								
26	85							
27								
	90							
28								
29	95							
30								
	100							
31								
32	105							
33								
34	110							
35	115							
36								
	120							

Completion Detail



STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: GW7

Downey Industrial Center

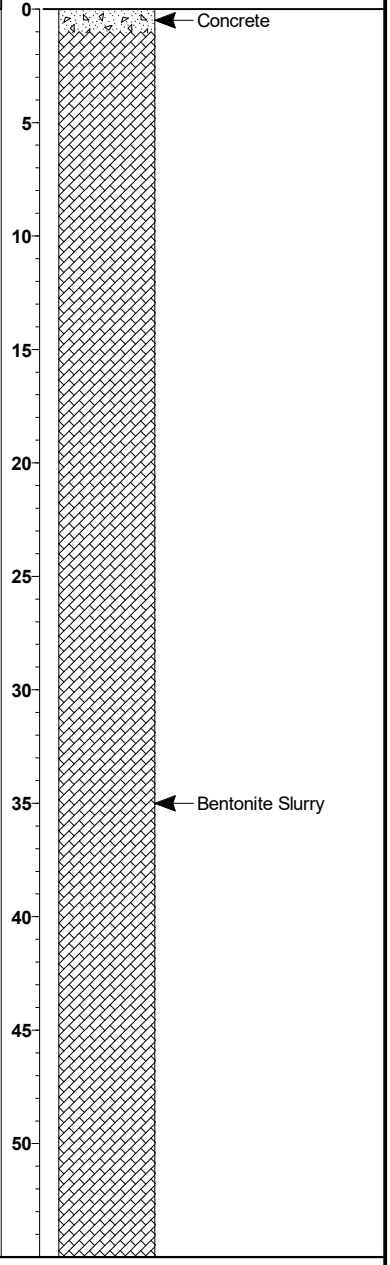
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
3	10		GW7-10	8 11 12	0.0	ML		Gray-Brown, Clayey Silt, Slightly Moist.
6	20		GW7-20	9 12 15	0.0	ML		Gray-Brown, Silt, Slightly Moist.
9	30		GW7-30	5 11 32	0.0	ML		Gray, Sandy Silt, Slightly Moist.
12	40		GW7-40	9 9 20	0.0	CL		Gray, Clay, Slightly Moist.
15	50		GW7-50	12 15 19	0.0	SW		Gray, Fine to Coarse Sand, Slightly Moist.

Completion Detail



Drilling Company: **Cascade Environmental**
Drilling Method: **Hollow Stem Auger**
Logged By: **C. Romanowski**
Sampling Method: **Split Spoon**

Date Started: **3/14/17**
Date Ended: **3/14/17**
Boring Diameter: **8"**

Depth to Water: **81.2 ft**
Total Depth: **85.0 ft**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

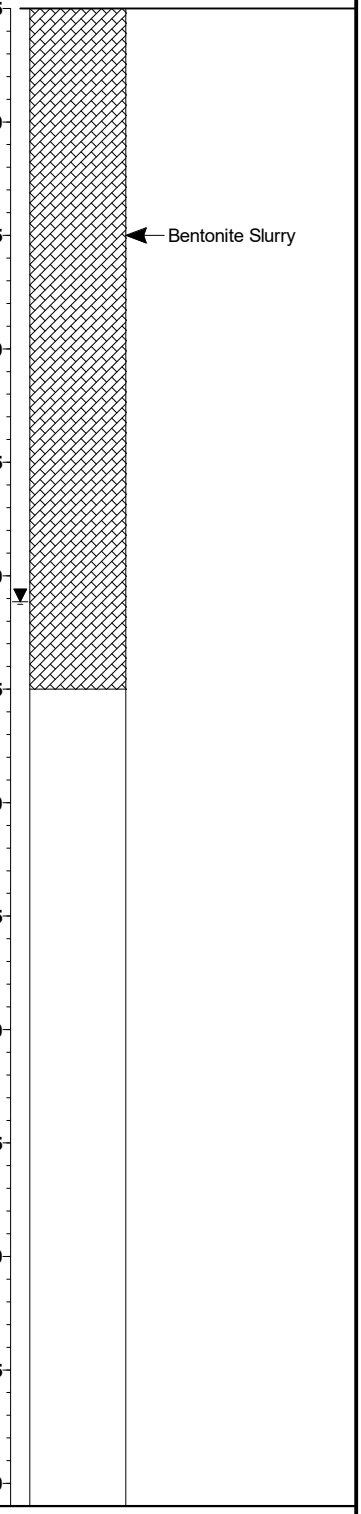
BORING NUMBER: GW7

Downey Industrial Center

JOB NUMBER: 01216368.00

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
17	55							
18	60		GW7-60	12 16 21	0.0	SW		Gray, Fine to Coarse Sand, Slightly Moist.
19								
20	65							
21								
	70		GW7-70	17 22 28	0.0	SW		Gray, Fine to Coarse Sand, Slightly Moist.
22								
23	75							
24								
	80		GW7-80	22 25 30	0.0	SW		Orange-Brown, Fine to Coarse Sand, Slightly Moist.
25								
26	85							
27								
	90							
28								
29	95							
30								
	100							
31								
32	105							
33								
34	110							
35	115							
36								
	120							

Completion Detail



SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB1

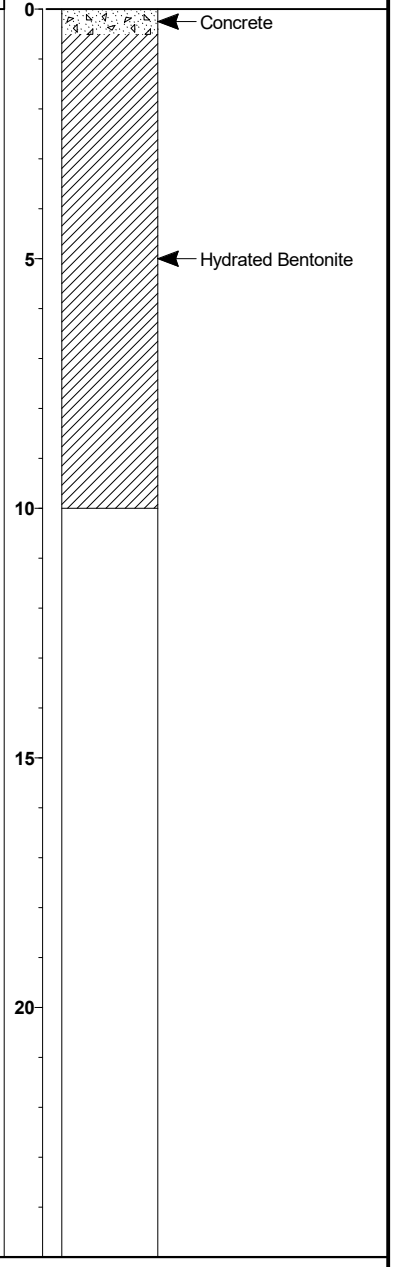
Downey Industrial Center

Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB1-1		0.0	ML		Medium Brown, Silt, Slightly Moist.
1								
	5		SB1-5		0.0	ML		Medium Brown, Silt, Slightly Moist.
2								
	10		SB1-10		0.0	ML		Medium Brown, Silt, Slightly Moist.
3								
4								
	15							
5								
6	20							
7								
	25							



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB2

Downey Industrial Center

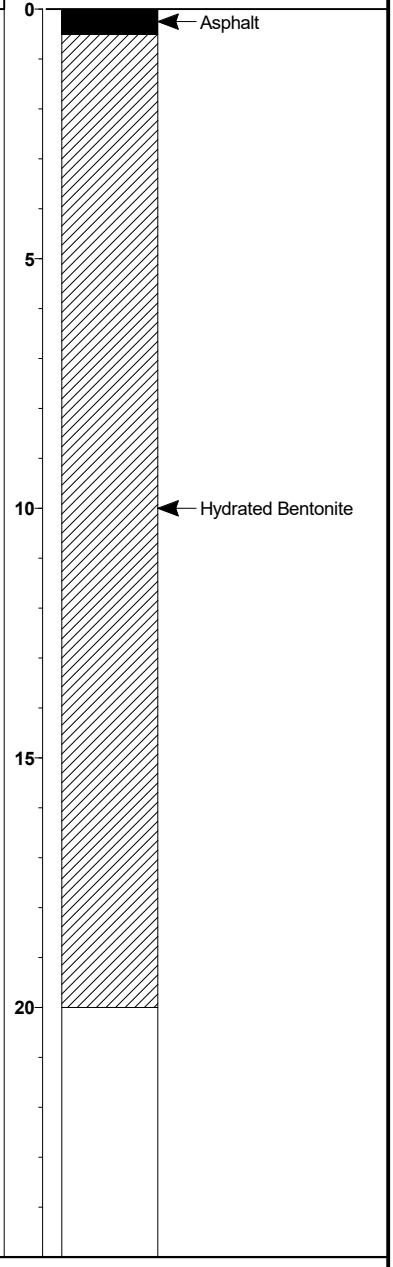
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB2-5		0.0	ML		Medium Brown, Silt, Slightly Moist.
2								
3	10		SB2-10		0.0	ML		Medium Brown, Silt, Slightly Moist.
4								
5	15		SB2-15		0.0	ML		Medium Brown, Silt, Slightly Moist.
6	20		SB2-20		0.0	ML		Medium Brown, Silt, Slightly Moist.
7	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **20.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB3

Downey Industrial Center

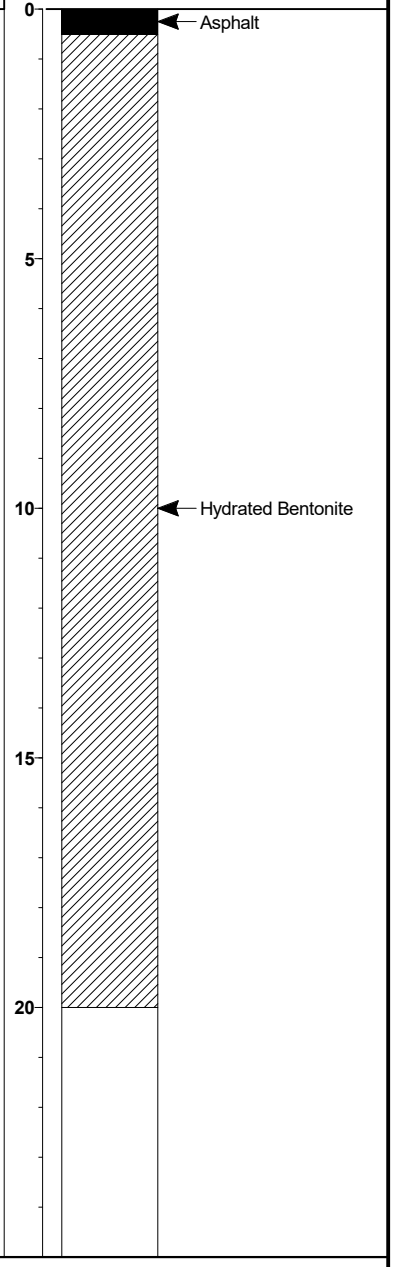
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB3-5		0.0	ML		Medium Brown, Silt, Slightly Moist.
2								
3	10		SB3-10		0.0	ML		Gray-Brown, Silt, Slightly Moist.
4								
5	15		SB3-15		0.0	ML		Brown, Clayey Silt, Slightly Moist.
6	20		SB3-20		0.0	ML		Brown, Clayey Silt, Slightly Moist.
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **20.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB4

Downey Industrial Center

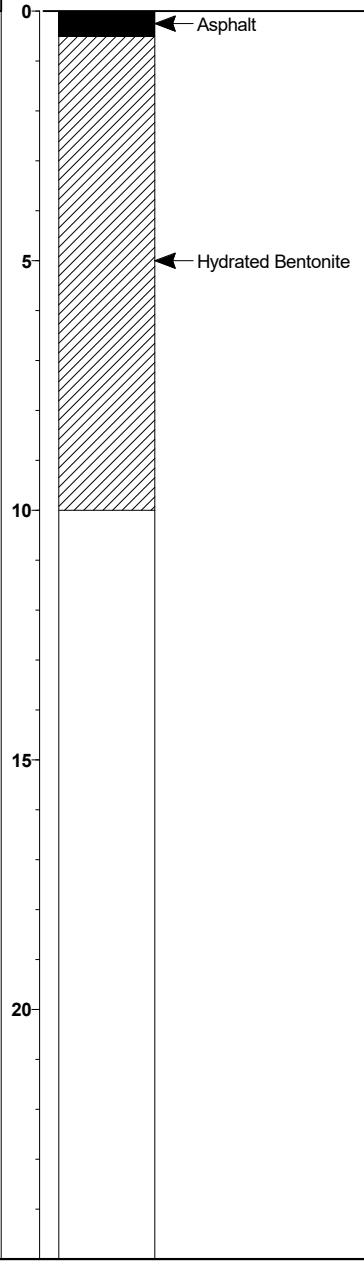
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB4-1		0.0	ML		Medium Brown, Silt, Slightly Moist.
1								
	5		SB4-5		0.0	ML		Dark Brown, Clayey Silt, Slightly Moist.
2								
3	10		SB4-10		0.0	ML		Medium Brown, Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB5

Downey Industrial Center

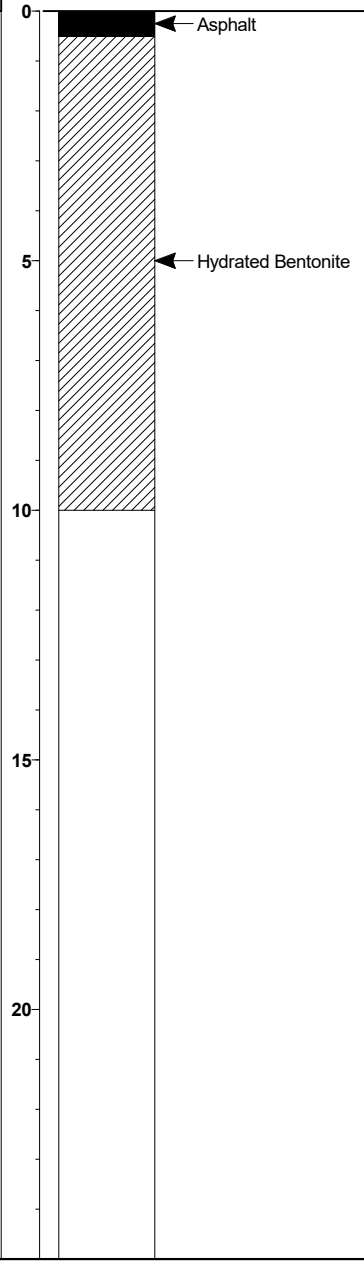
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB5-1		0.0	ML		Medium Brown, Silt, Slightly Moist.
1								
	5		SB5-5		0.0	ML		Medium Brown, Silt, Slightly Moist.
2								
3	10		SB5-10		0.0	ML		Medium Brown, Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB6

Downey Industrial Center

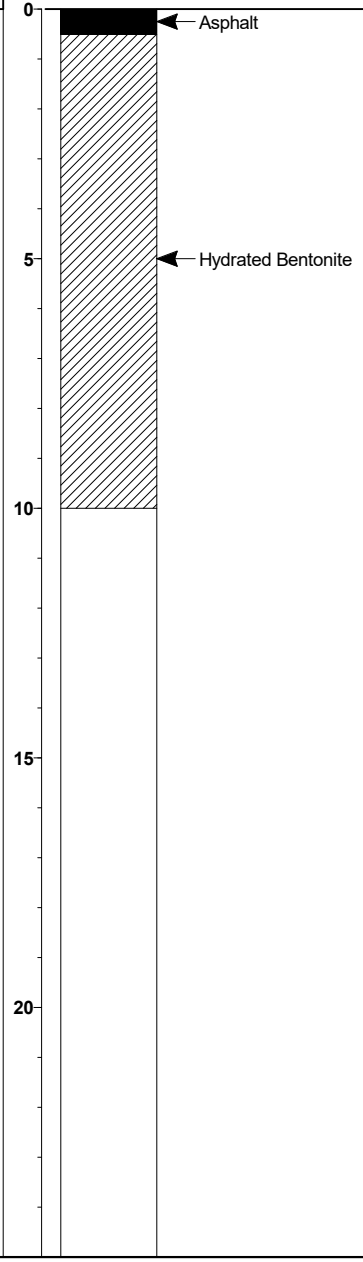
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB6-1		0.0	ML		Medium Brown, Silt, Slightly Moist.
1								
	5		SB6-5		0.0	ML		Medium Brown, Clayey Silt, Slightly Moist.
2								
3	10		SB6-10		0.0	SM		Brown, Sandy Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB7

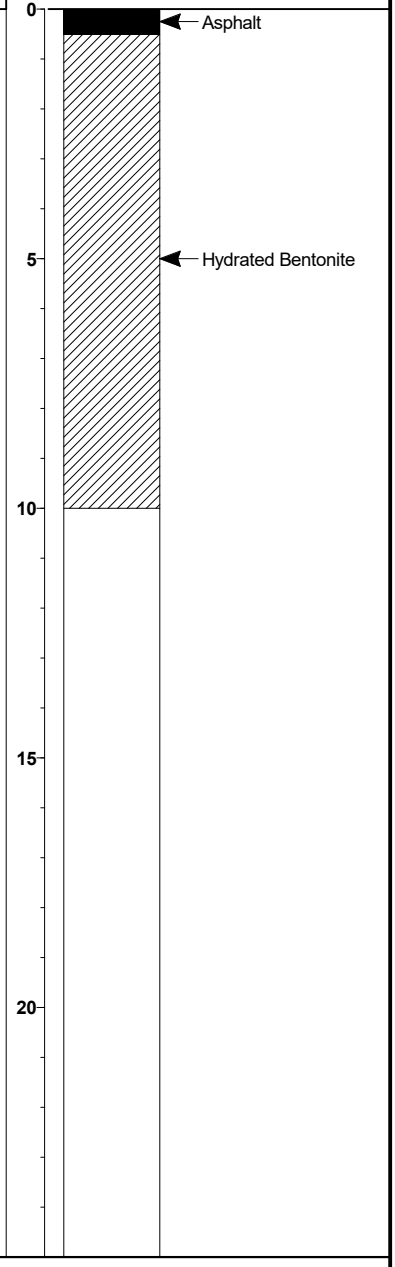
Downey Industrial Center

Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB7-1		0.0	ML		Medium Brown, Silt, Slightly Moist.
1								
	5		SB7-5		0.0	ML		Medium Brown, Silt, Slightly Moist.
2								
3	10		SB7-10		0.0	ML		Brown, Clayey Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB8

Downey Industrial Center

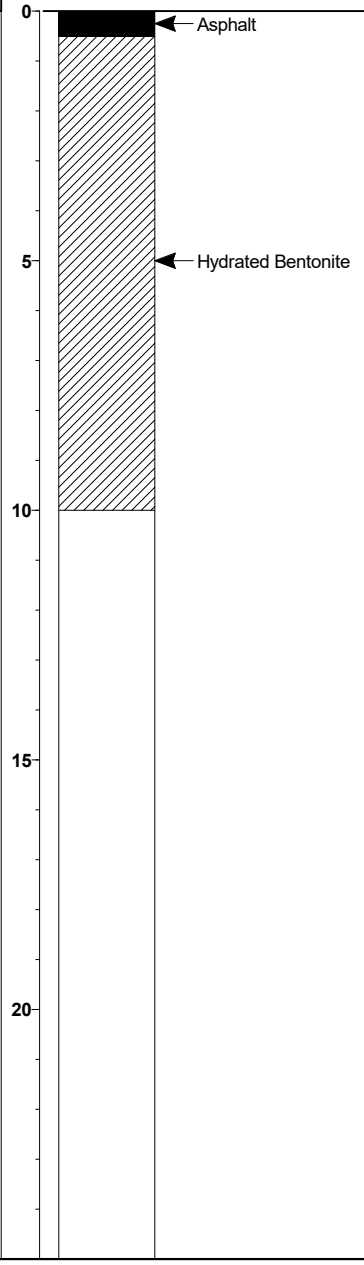
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB8-1		0.0	ML		Medium Brown, Silt, Slightly Moist.
1								
	5		SB8-5		0.0	ML		Medium Brown, Clayey Silt, Slightly Moist.
2								
3	10		SB8-10		0.0	ML		Brown, Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB9

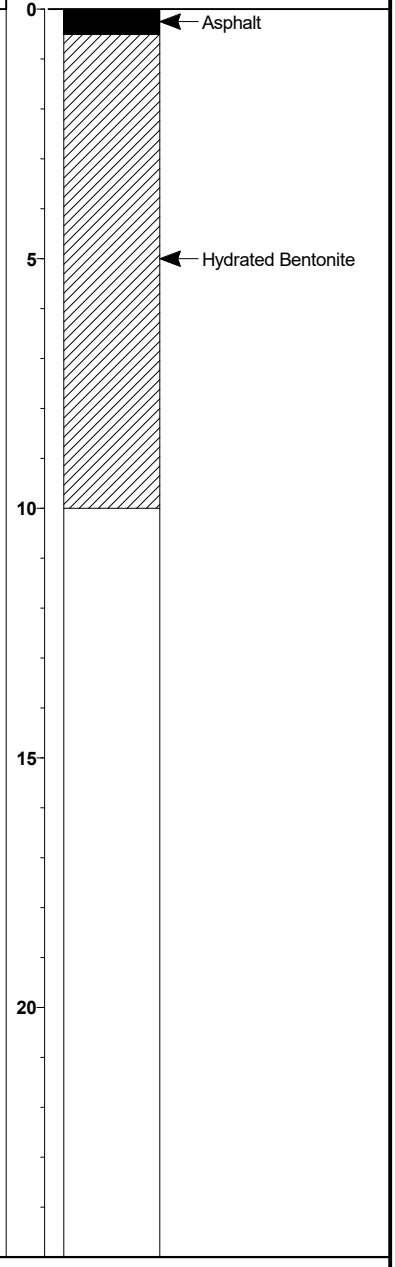
Downey Industrial Center

Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB9-1		0.0	ML		Medium Brown, Silt, Slightly Moist.
1								
	5		SB9-5		0.0	ML		Medium Brown, Silt, Slightly Moist.
2								
3	10		SB9-10		0.0	ML		Medium Brown, Sandy Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB10

Downey Industrial Center

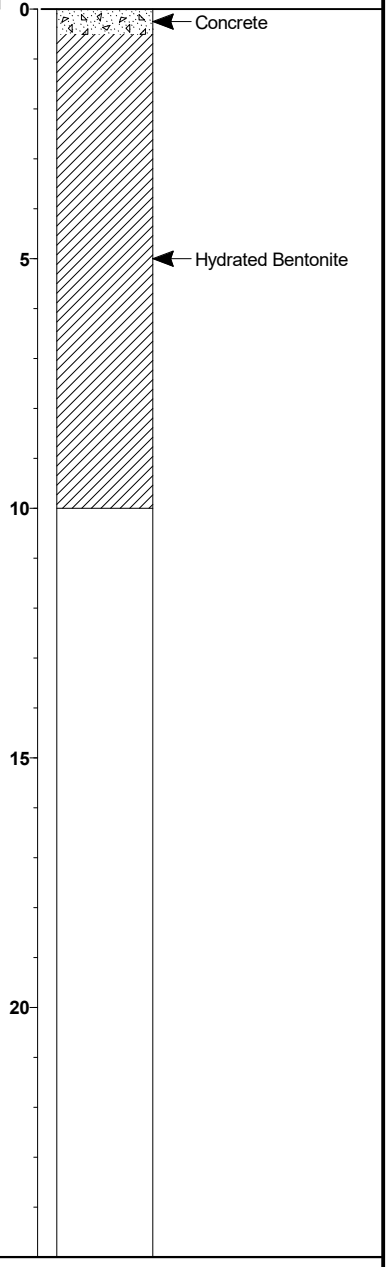
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB10-1		0.0	ML		Medium Brown, Clayey Silt, Slightly Moist.
1								
	5		SB10-5		0.0	ML		Dark Brown, Silt, Slightly Moist.
2								
3	10		SB10-10		0.0	ML		Dark Brown, Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB11

Downey Industrial Center

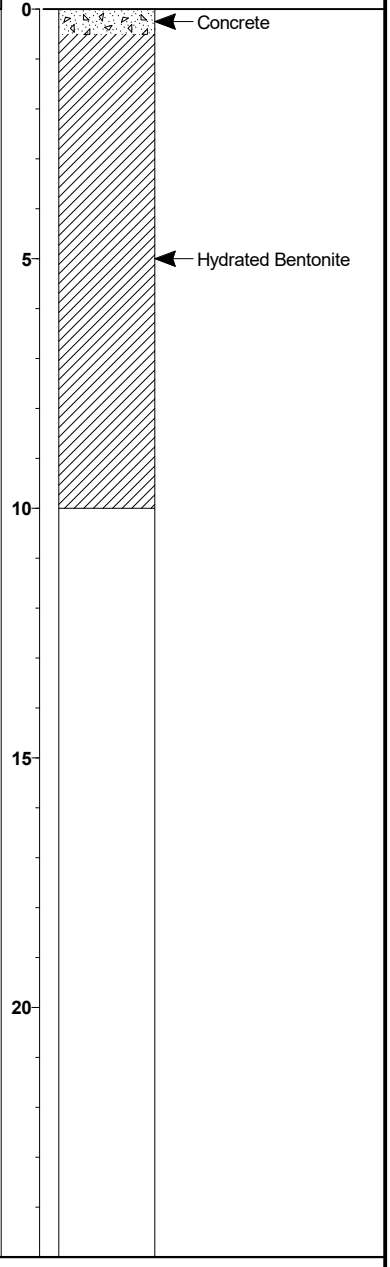
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB11-1		0.0	SW		Medium Brown, Very Fine to Coarse Sand, Slightly Moist.
1								
	5		SB11-5		0.0	ML		Dark Brown, Clayey Silt, Slightly Moist.
2								
3	10		SB11-10		0.0	ML		Gray, Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB12

Downey Industrial Center

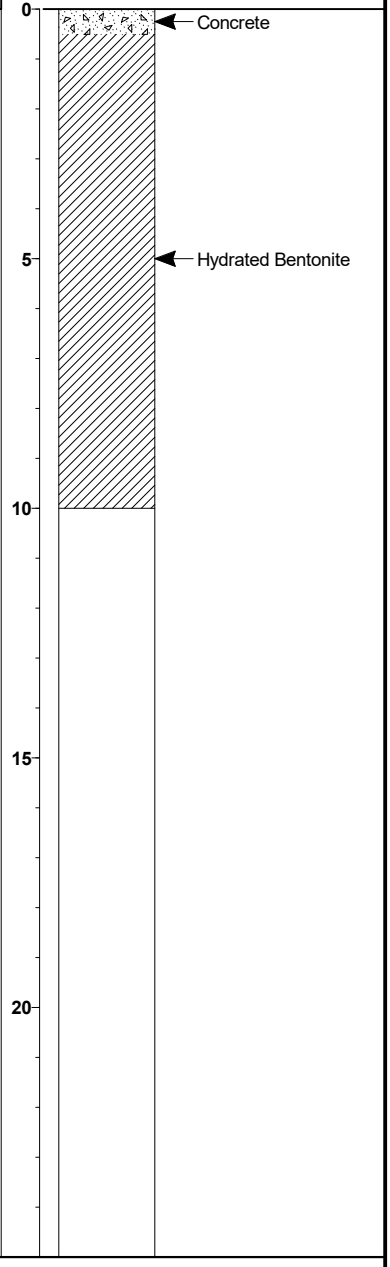
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB12-1		0.0	SW		Orange-Brown, Fine to Coarse Sand, Slightly Moist.
1								
	5		SB12-5		0.0	SW		Orange-Brown, Fine to Coarse Sand, Slightly Moist.
2								
3	10		SB12-10		0.0	ML		Brown, Clayey Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB13

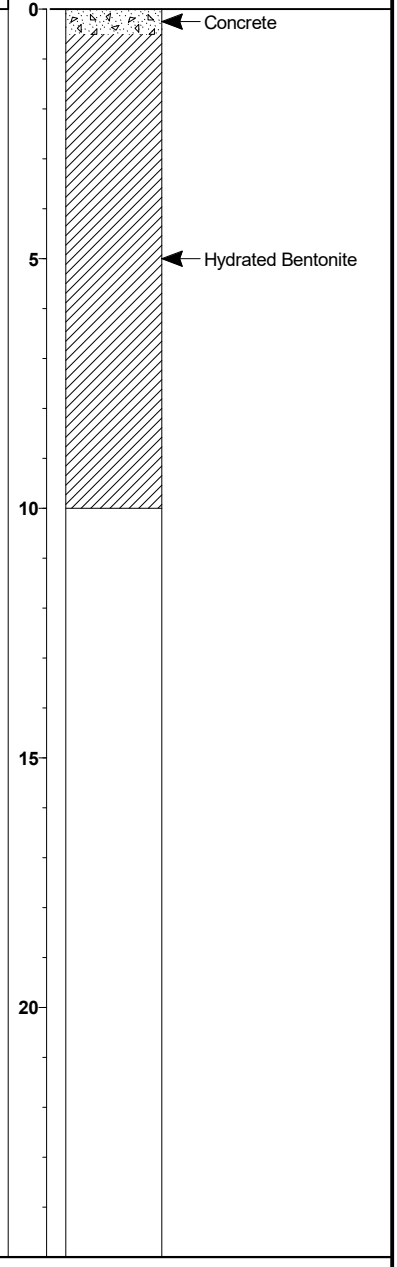
Downey Industrial Center

Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB13-1		0.0	ML		Brown, Silt, Slightly Moist.
1								
	5		SB13-5		0.0	ML		Brown, Silt, Slightly Moist.
2								
3	10		SB13-10		0.0	ML		Brown, Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB14

Downey Industrial Center

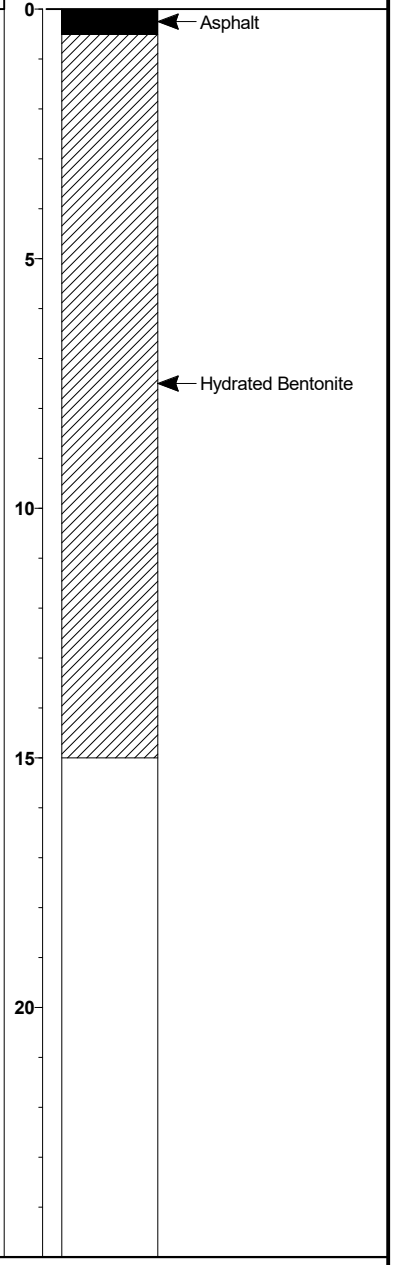
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB14-1		0.0	ML		Dark Brown, Silt, Slightly Moist.
1	5		SB14-5		1.5	CL		Dark Brown, Clay, Slightly Moist.
2								
3	10		SB14-10		0.0	CL		Brown, Clay, Slightly Moist.
4								
5	15		SB14-15		0.0	CL		Brown, Clay, Slightly Moist.
6	20							
7	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **15.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB15

Downey Industrial Center

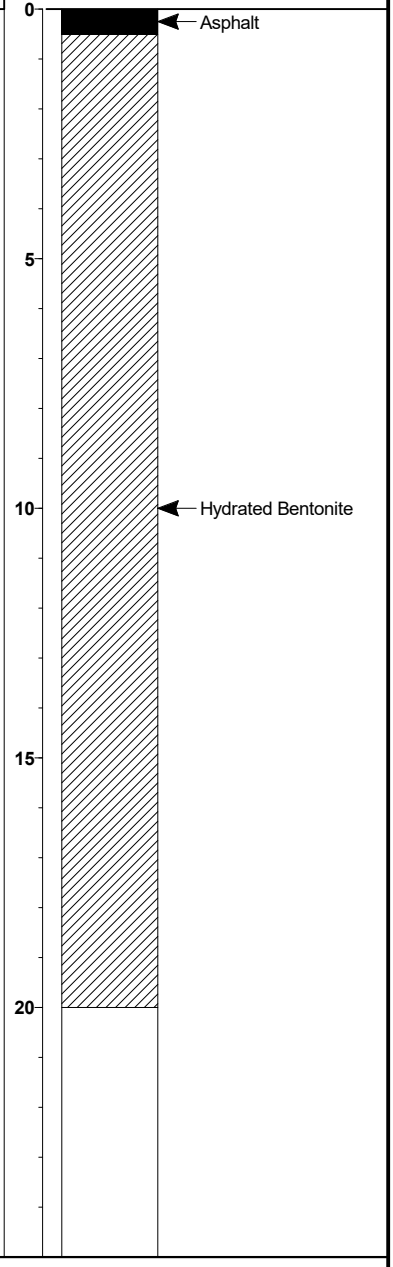
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB15-5		0.0	CL		Brown, Silty Clay, Slightly Moist.
2								
3	10		SB15-10		0.0	ML		Tan, Silt, Slightly Moist.
4								
5	15		SB15-15		0.0	CL		Tan, Clay, Slightly Moist.
6	20		SB15-20		0.0	ML		Tan, Clayey Silt, Slightly Moist.
7	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **20.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB16

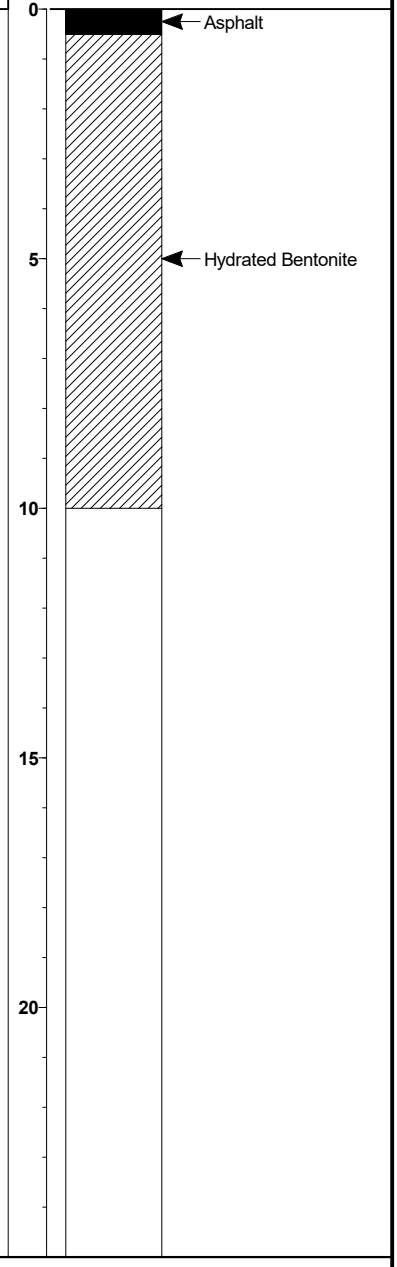
Downey Industrial Center

Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB16-1		0.0	ML		Brown, Silt, Slightly Moist.
1								
	5		SB16-5		0.0	ML		Brown, Silt, Slightly Moist.
2								
3	10		SB16-10		0.0	ML		Brown, Clayey Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB17

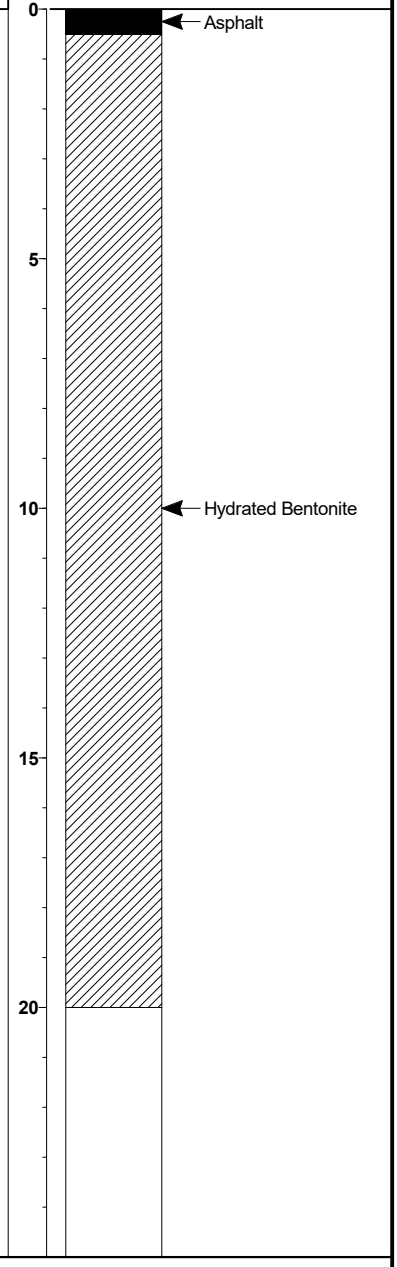
Downey Industrial Center

Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB17-5		0.0	SW		Tan, Very Fine to Medium Sand, Slightly Moist.
2								
3	10		SB17-10		0.0	ML		Brown, Clayey Silt, Slightly Moist.
4								
5	15		SB17-15		0.0	ML		Brown, Clayey Silt, Slightly Moist.
6	20		SB17-20		0.0	ML		Brown, Clayey Silt, Slightly Moist.
7	25							



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **20.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB18

Downey Industrial Center

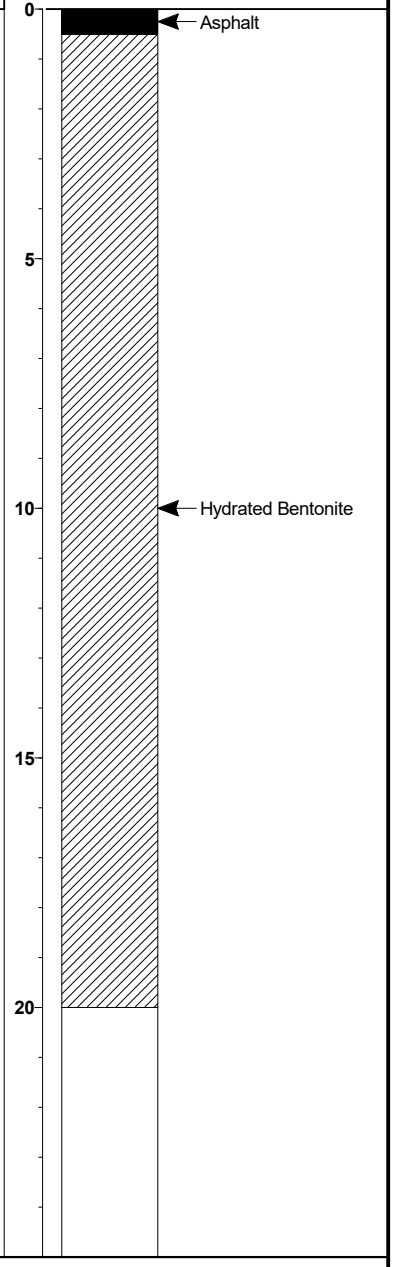
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB18-5		0.0	ML		Dark Brown, Silt, Slightly Moist.
2								
3	10		SB18-10		1.0	ML		Dark Brown, Silt, Slightly Moist.
4								
5	15		SB18-15		0.0	ML		Brown, Clayey Silt, Slightly Moist.
6	20		SB18-20		0.0	ML		Brown, Clayey Silt, Slightly Moist.
7	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **20.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB19

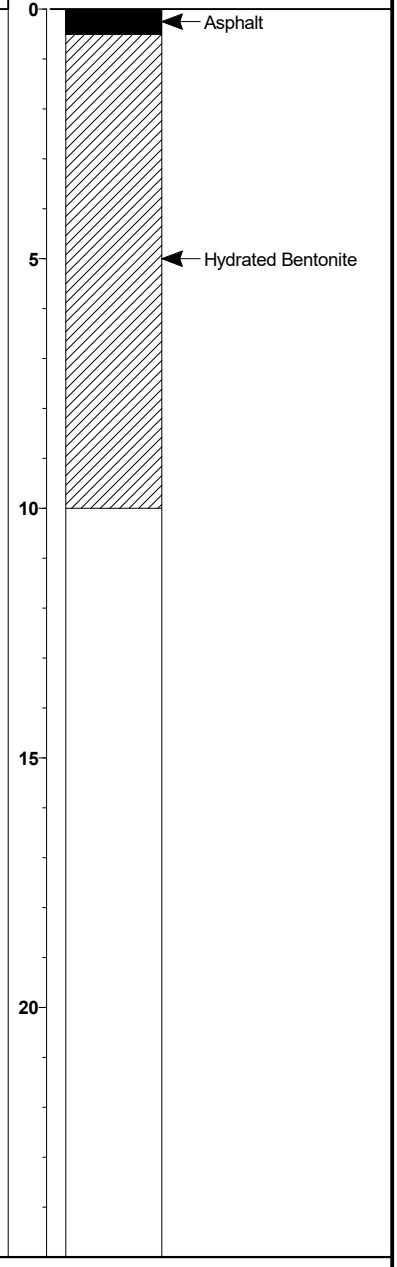
Downey Industrial Center

Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB19-1		0.0	ML		Brown, Silt, Slightly Moist.
1								
	5		SB19-5		0.0	ML		Brown, Silt, Slightly Moist.
2								
	10		SB19-10		0.0	ML		Brown, Silt, Slightly Moist.
3								
4								
	15							
5								
6	20							
7								
	25							



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/17/17**

Date Ended: **2/17/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB20

Downey Industrial Center

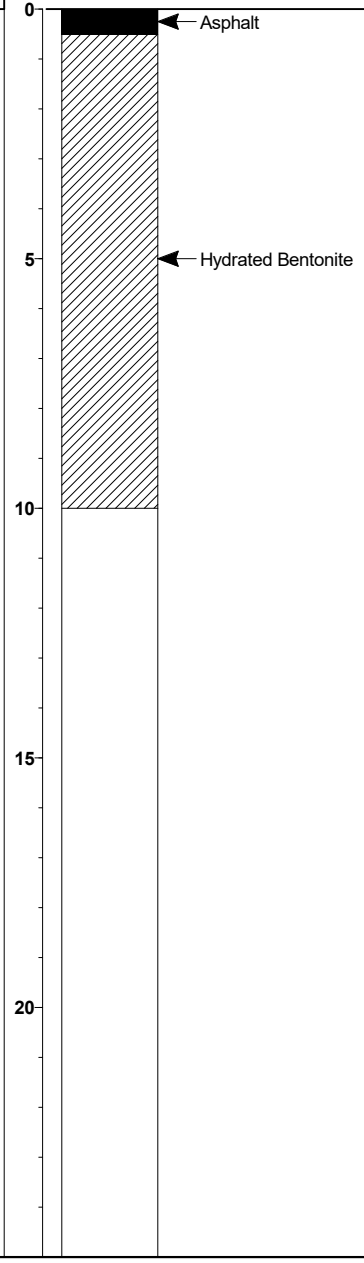
Downey, CA

JOB NUMBER: 01216368.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB20-1		0.0	ML		Brown, Silt, Slightly Moist.
1								
	5		SB20-5		0.0	ML		Brown, Clayey Silt, Slightly Moist.
2								
3	10		SB20-10		0.0	ML		Brown, Silt, Slightly Moist.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**

Drilling Method: **Direct Push**

Logged By: **C. Romanowski**

Sampling Method: **Solid Spoon**

Date Started: **2/14/17**

Date Ended: **2/14/17**

Total Depth: **10.0 ft**

Boring Diameter: **1.5"**

STANDARD_LOG 01216368.00 T3.GPJ STD_LOG.GDT 4/13/17

APPENDIX C

CHEMTEK ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01216368.00T3	**Job No:**	702073
	3900 Kilroy Airport Way	**Project Site:**	Prologis	**Report Date:**	02/17/17
	Long Beach, CA		9400 Hall Road	**Date Received:**	02/14/17
				Number of Samples:	37
Attention:				**Sample Matrix:**	Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB14-1	02/14/17	702073-01A
SB14-5	02/14/17	702073-02A
SB14-10	02/14/17	702073-03A
SB14-15	02/14/17	702073-04A
SB15-5	02/14/17	702073-05A
SB15-10	02/14/17	702073-06A
SB15-15	02/14/17	702073-07A
SB15-20	02/14/17	702073-08A
SB20-1	02/14/17	702073-09A
SB20-5	02/14/17	702073-10A
SB20-10	02/14/17	702073-11A
SB17-5	02/14/17	702073-12A
SB17-10	02/14/17	702073-13A
SB17-15	02/14/17	702073-14A
SB17-20	02/14/17	702073-15A
SB16-1	02/14/17	702073-16A
SB16-5	02/14/17	702073-11A
SB16-10	02/14/17	702073-18A
SB18-5	02/14/17	702073-19A
SB18-10	02/14/17	702073-20A
SB18-15	02/14/17	702073-21A
SB18-20	02/14/17	702073-22A
SB10-1	02/14/17	702073-23A
SB10-5	02/14/17	702073-24A
SB10-10	02/14/17	702073-25A
SB11-1	02/14/17	702073-26A
SB11-5	02/14/17	702073-27A
SB11-10	02/14/17	702073-28A
SB12-1	02/14/17	702073-29A
SB12-5	02/14/17	702073-30A
SB12-10	02/14/17	702073-31A
SB13-1	02/14/17	702073-32A
SB13-5	02/14/17	702073-33A
SB13-10	02/14/17	702073-34A
SB1-1	02/14/17	702073-35A
SB1-5	02/14/17	702073-36A
SB1-10	02/14/17	702073-37A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073
Project Site: Prologis **Matrix:** Soil
Project No. 01216368.00T3

Analyte	Sample ID: SB14-1 Sample Date: 2/14/2017 Results	Units	DF	DLR	Sample ID: SB14-5 Sample Date: 2/14/2017 Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/14/17				02/14/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB14-10	2/14/2017	SB14-15	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/14/17				02/14/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB15-5	2/14/2017	SB15-10	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Bromoform	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Chloroform	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	2.2	4.4
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
trans-1,3-Dichloroproene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	2.2	11
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Styrene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Toluene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	2.2	4.4
Ethanol	ND	µg/kg	1	250	ND	µg/kg	2.2	550
MTBE	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
ETBE	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
DIPE	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
TAME	ND	µg/kg	1	1	ND	µg/kg	2.2	2.2
TBA	ND	µg/kg	1	50	ND	µg/kg	2.2	110
MEK	ND	µg/kg	1	10	ND	µg/kg	2.2	22
MIBK	ND	µg/kg	1	10	ND	µg/kg	2.2	22
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	2.2	22
Acetone	ND	µg/kg	1	50	ND	µg/kg	2.2	110
Analysis Date:	02/14/17				02/14/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB15-15	2/14/2017	SB15-20	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromoform	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chloroform	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	0.9	4.5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Styrene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Toluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9	1.05	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	0.9	1.8	ND	µg/kg	1	2
Ethanol	ND	µg/kg	0.9	225	ND	µg/kg	1	250
MTBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
ETBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
DIPE	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
TAME	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
TBA	ND	µg/kg	0.9	50	ND	µg/kg	1	50
MEK	ND	µg/kg	0.9	9	ND	µg/kg	1	10
MIBK	ND	µg/kg	0.9	9	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	0.9	9	ND	µg/kg	1	10
Acetone	ND	µg/kg	0.9	45	ND	µg/kg	1	50
Analysis Date:	02/14/17				02/14/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB20-1	2/14/2017	SB20-5	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/14/17				02/14/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB20-10	2/14/2017	SB17-5	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	1.19	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/14/17				02/14/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB17-10	2/14/2017	SB17-15	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Bromoform	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Chloroform	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	0.8	1.6	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	0.8	4	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Styrene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Toluene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Trichloroethene(TCE)	1.29	µg/kg	0.8	0.8	2.35	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	0.8	1.6	ND	µg/kg	1	2
Ethanol	ND	µg/kg	0.8	200	ND	µg/kg	1	250
MTBE	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
ETBE	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
DIPE	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
TAME	ND	µg/kg	0.8	0.8	ND	µg/kg	1	1
TBA	ND	µg/kg	0.8	50	ND	µg/kg	1	50
MEK	ND	µg/kg	0.8	8	ND	µg/kg	1	10
MIBK	ND	µg/kg	0.8	8	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	0.8	8	ND	µg/kg	1	10
Acetone	ND	µg/kg	0.8	40	ND	µg/kg	1	50
Analysis Date:	02/14/17				02/14/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB17-20	2/14/2017	SB16-1	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	3.47	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/14/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073
Project Site: Prologis **Matrix:** Soil
Project No. 01216368.00T3

Analyte	Sample ID: SB16-5 Sample Date: 2/14/2017 Results	Units	DF	DLR	Sample ID: SB16-10 Sample Date: 2/14/2017 Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB18-5	2/14/2017	SB18-10	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	8.05	µg/kg	1	1	10.5	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB18-15	2/14/2017	SB18-20	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	3.53	µg/kg	1	1	2.29	µg/kg	0.9	0.9
Toluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	2.86	µg/kg	1	1	2.96	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	1	250	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	1	50	ND	µg/kg	0.9	45
MEK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	1	50	ND	µg/kg	0.9	45
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB10-5	2/14/2017	SB10-10	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	6.78	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	9.00	µg/kg	1	1	1.48	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB11-5	2/14/2017	SB11-10	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	1.2	2.4	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
trans-1,3-Dichloroproene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	1.2	6	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	7.78	µg/kg	1.2	1.2	1.27	µg/kg	0.9	0.9
Toluene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	16.3	µg/kg	1.2	1.2	4.20	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	1.2	2.4	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	1.2	300	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	1.2	1.2	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	1.2	60	ND	µg/kg	0.9	45
MEK	ND	µg/kg	1.2	12	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	1.2	12	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	1.2	12	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	1.2	60	ND	µg/kg	0.9	45
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB12-5	2/14/2017	SB12-10	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.2	2.4	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.2	6	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Styrene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Tetrachloroethene(PCE)	6.54	µg/kg	1.2	1.2	1.02	µg/kg	1	1
Toluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Trichloroethene(TCE)	17.9	µg/kg	1.2	1.2	3.89	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1.2	2.4	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1.2	300	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
TAME	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
TBA	ND	µg/kg	1.2	60	ND	µg/kg	1	50
MEK	ND	µg/kg	1.2	12	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.2	12	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.2	12	ND	µg/kg	1	10
Acetone	ND	µg/kg	1.2	60	ND	µg/kg	1	50
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB13-1	2/14/2017	SB13-5	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	1.3	2.6	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
trans-1,3-Dichloroproene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	1.3	6.5	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Toluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	1.3	2.6	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	1.3	325	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	1.3	1.3	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	1.3	65	ND	µg/kg	1.1	55
MEK	ND	µg/kg	1.3	13	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	1.3	13	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	1.3	13	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	1.3	65	ND	µg/kg	1.1	55
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB13-10	2/14/2017	SB1-1	2/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1.2	2.4
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1.2	6
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Styrene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Toluene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1.2	2.4
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1.2	300
MTBE	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
ETBE	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
DIPE	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
TAME	ND	µg/kg	1	1	ND	µg/kg	1.2	1.2
TBA	ND	µg/kg	1	50	ND	µg/kg	1.2	60
MEK	ND	µg/kg	1	10	ND	µg/kg	1.2	12
MIBK	ND	µg/kg	1	10	ND	µg/kg	1.2	12
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1.2	12
Acetone	ND	µg/kg	1	50	ND	µg/kg	1.2	60
Analysis Date:	02/15/17				02/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702073
Project Site: Prologis **Matrix:** Soil
Project No. 01216368.00T3

Analyte	Sample ID: SB1-5 Sample Date: 2/14/2017 Results	Units	DF	DLR	Sample ID: SB1-10 Sample Date: 2/14/2017 Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	8.54	µg/kg	1	1	8.84	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	21.9	µg/kg	1	1	34.0	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/15/17				02/16/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 702073
Report Date: 02/17/17
Date of Sample: 02/14/17
Date Received: 02/14/17
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB14-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB14-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB14-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB14-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB15-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB15-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB15-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB15-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB20-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB20-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB20-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB17-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB17-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB17-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB17-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB16-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB16-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB16-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB18-5	mg/kg	ND	1	0.2	ND	1	5.0	42.8	1	10
SB18-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB18-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB18-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB10-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB10-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB10-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB11-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB11-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB11-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB12-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB12-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB12-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB13-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB13-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB13-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB1-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB1-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB1-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Sample Date:		02/14/17			02/14/17			02/14/17		
Analysis Date:		02/14-16/17			02/14-15/17			02/14-15/17		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

Job No: 702073
Report Date: 02/17/17
Date of Sample: 02/14/17
Date Received: 02/14/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB14-1	SB14-5	SB15-5	SB15-10	SB20-1	SB20-5	SB17-5	SB16-1	SB16-5	SB18-5	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Arsenic	7.45	7.07	ND	6.31	48.7	4.39	4.36	ND	4.31	33.2	2.0
Barium	82.7	143	133	156	107	181	169	107	172	122	1.0
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Chromium	16.7	24.7	21.4	22.3	20.5	25.2	18.5	21.3	25.6	21.5	1.0
Cobalt	6.46	11.3	9.87	11.2	8.00	11.1	7.06	8.22	12.3	8.95	2.0
Copper	21.9	32.1	27.9	29.3	23.1	32.5	22.9	23.7	31.8	24.5	2.0
Lead	3.61	3.97	3.62	ND	3.72	ND	ND	ND	3.25	3.88	2.0
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Nickel	10.7	19.6	17.5	17.6	14.2	21.1	14.0	14.1	20.3	15.7	2.0
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Vanadium	29.8	41.4	36.1	40.4	33.1	40.3	35.2	35.1	40.6	36.3	2.0
Zinc	38.9	54.3	48.4	54.3	47.1	55.9	39.9	45.3	56.2	48.3	5.0
Analysis Date:	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-1	SB14-5	SB15-5	SB15-10	SB20-1	SB20-5	SB17-5	SB16-1	SB16-5	SB18-10	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

Job No: 702073
Report Date: 02/17/17
Date of Sample: 02/14/17
Date Received: 02/14/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB10-1	SB10-5	SB11-1	SB11-5	SB12-1	SB12-5	SB13-1	SB1-1	SB1-5	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Arsenic	4.70	ND	ND	ND	ND	ND	ND	5.22	ND	2.0
Barium	284	97.6	60.3	119	62.6	114.3	98.2	143	99.9	1.0
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Chromium	20.5	17.8	17.1	21.5	15.2	21.6	19.5	21.7	25.1	1.0
Cobalt	7.69	8.21	6.80	9.81	6.13	9.99	8.90	9.60	7.87	2.0
Copper	17.4	17.6	15.3	21.1	14.5	21.4	17.8	20.7	20.9	2.0
Lead	3.26	2.62	3.11	4.46	3.08	3.08	3.90	4.39	7.53	2.0
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Nickel	14.2	13.8	8.29	15.4	9.21	16.2	14.0	14.6	13.2	2.0
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Vanadium	39.2	31.7	37.1	34.4	35.6	35.9	35.8	40.1	31.9	2.0
Zinc	43.9	44.2	41.6	52.3	37.0	52.0	47.6	41.4	48.5	5.0
Analysis Date:	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-1	SB14-5	SB15-5	SB15-10	SB20-1	SB20-5	SB17-5	SB16-1	SB16-5	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	2/16/17	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01216368.00T3
Project Site: Prologis
9400 Hall Road
Units: ppb or µg/kg

Job No: 702073
Report Date: 02/17/17
Date of Sample: 02/14/17
Date Received: 02/14/17
Sample Matrix: Soil

Client Sample ID:	SB15-5	SB1-1	Reporting
Dilution Factor:	1	1	Limit
	(ug/kg)	(ug/kg)	(ug/kg)
Aldrin	ND	ND	2.0
Chlordate (total)	ND	ND	2.0
Chlordate (alpha)	ND	ND	2.0
4,4'-DDD	ND	ND	2.0
4,4'-DDE	ND	ND	2.0
4,4'-DDT	ND	ND	2.0
Dieldrin	ND	ND	2.0
Endosulfan I	ND	ND	2.0
Endosulfan II	ND	ND	2.0
Endosulfan Sulfate	ND	ND	2.0
Endrin	ND	ND	2.0
Endrin aldehyde	ND	ND	2.0
Endrin ketone	ND	ND	2.0
Chlordane (gamma)	ND	ND	2.0
Heptachlor	ND	ND	2.0
Heptachlor epoxide	ND	ND	2.0
Alpha-BHC	ND	ND	2.0
Betta-BHC	ND	ND	2.0
Delta-BHC	ND	ND	2.0
Gamma-BHC, Lindane	ND	ND	2.0
Methoxychlor	ND	ND	10.0
Toxaphene	ND	ND	170.0
Analysis Date:	2/16/17	2/16/17	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis

Job No: 702073
Report Date: 02/17/17
Date of Sample: 02/14/17
Date Received: 02/14/17
Sample Matrix: Soil

EPA Method: 7199 HEX CHROMIUM **Units:** ppm or mg/Kg

Client Sample ID:	SB14-1	SB14-5	SB16-1	SB16-5	Reporting
Dilution Factor:	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Hexavalent Chromium	0.329	ND	ND	ND	0.20
Analysis Date:	2/15/17	2/15/17	2/15/17	2/15/17	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 02/15/17 **Job No: 702073**
QC Lab ID: 702073-19A
Units: ppb

QUALITY CONTROL DATA
EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	90.4	97.7	7.8%	30	70-130
Benzene	ND	25	99.8	100.0	0.2%	30	70-130
Trichloroethylene	ND	25	99.6	101.6	2.0%	30	70-130
Toluene	ND	25	110.9	108.5	2.2%	30	70-130
Chlorobenzene	ND	25	100.0	98.5	1.5%	30	70-130

QC Analysis Date: 02/15/17
QC Lab ID: 702073-22A
Units: ppm

QUALITY CONTROL DATA
EPA METHOD: 8015B(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	97.8	107.3	9.3%	30	70-130

QC Analysis Date: 02/14/17
QC Lab ID: 702073-1A
Units: ppm

QUALITY CONTROL DATA
EPA METHOD: 8015B(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	100	112.6	108.9	3.3%	30	70-130

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 02/16/17
QC Lab ID: 702073-32A
Units: ppm
Job No: 702073

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	100.0	110.0	9.5%	30	70-130
Arsenic	ND	1.00	101.0	109.0	7.6%	30	70-130
Barium	ND	1.00	105.0	110.0	4.7%	30	70-130
Beryllium	ND	1.00	103.0	107.0	3.8%	30	70-130
Cadmium	ND	1.00	102.0	108.0	5.7%	30	70-130
Chromium	ND	1.00	102.0	105.0	2.9%	30	70-130
Cobalt	ND	1.00	105.0	107.0	1.9%	30	70-130
Copper	ND	1.00	98.0	109.0	10.6%	30	70-130
Lead	ND	1.00	99.0	107.0	7.8%	30	70-130
Molybdenum	ND	1.00	97.0	102.0	5.0%	30	70-130
Nickel	ND	1.00	97.0	101.0	4.0%	30	70-130
Selenium	ND	1.00	96.0	106.0	9.9%	30	70-130
Silver	ND	1.00	115.0	107.0	7.2%	30	70-130
Thallium	ND	1.00	110.0	108.0	1.8%	30	70-130
Vanadium	ND	1.00	96.0	109.9	13.5%	30	70-130
Zinc	ND	1.00	97.0	105.0	7.9%	30	70-130

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702073

Job No.: 0 12163 68 00 T3

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: A Hutchens Email: ahutchens@scsengineers.com
ADDRESS: 3700 Kilroy Airport Way
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Paulos, J P.O. No.
SITE ADDRESS: 9400 Hall Road
SAMPLED BY: C. Romanowski EDF
Turn Around Time: NORM 24 hr 48 hr (X) Other

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Itex chrom 7199	Ocps 8081A			
1	SB14-1	2/14/17	747	SO			ice	Vois			X	X					X	X				
2	SB14-5		750								X	X					X	X				
3	SB14-10		755								X	X										
4	SB14-15		801								X	X										
5	SB15-5		816								X	X					X		X			
6	SB15-10		824								X	X					X					
7	SB15-15		830								X	X										
8	SB15-20		840								X	X										
9	SB20-1		901								X	X					X					
10	SB20-5		904								X	X					X					
11	SB20-10		910								X	X										
12	SB17-5		932								X	X					X					
13	SB17-10		937								X	X										
14	SB17-15		948								X	X										
15	SB17-20		958								X	X										
16	SB16-1		1025								X	X					X	X				

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY: [signature]	C. Romanowski	SCS Engineers	2/14/17	1213
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY: [signature]	Martin	Chemt	2/14/17	1213

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702073

Job No.: G12636 8.00 T3

Page: 2 of 3

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Prados P.O. No.

SITE ADDRESS: 9400 Hall Road

SAMPLED BY: C. Romanowski EDF Turn Around Time NORM 24 hr 48 hr (X) Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hex Chrome 7199	CPs 8081A			
1	SB16-5	2/14/17	1028	SO			Ice	Vials			X	X					X	X				
2	SB16-10	"	1033	"			"	"			X	X										
3	SB 18-5		1120								X	X										
4	SB 18-10		1129								X	X					X					
5	SB 18-15		1136								X	X										
6	SB 18-20		1146								X	X										
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	2/14/17	1213
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Mark	Chem	2/14/17	1213

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702073 ~~702068~~

Job No.: 01316 368.03 T3

Page: 3 of 3

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com
ADDRESS: 2900 Kilroy Airport Way
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Projects P.O. No.
SITE ADDRESS: 9400 Hall Road
SAMPLED BY: C. Romano ☐ EDF
Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☒ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCP EPA 8081A				
1	SB10-1	2/14/17	1349	SO			ice	VOAs			X						X					
2	SB10-5		1348								X	X					X					
3	SB10-10		1408								X	X										
4	SB11-1		1434								X						X					
5	SB11-5		1438								X	X					X					
6	SB11-10		1443								X	X										
7	SB12-1		1513								X						X					
8	SB12-5		1516								X	X					X					
9	SB12-10		1520								X	X										
10	SB13-1		1553								X	X					X					
11	SB13-5		1557								X	X										
12	SB13-10		1559								X	X										
13	SB1-1		1702								X	X					X	X				
14	SB1-5		1705								X	X					X					
15	SB1-10	↓	1709	↓							X	X										
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romano	C. Romanowski	SCS Engineers	2/14/17	6:30pm
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin	Chemtek	2/14/17	6:30pm

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

Job No: 702073A
Report Date: 03/03/17
Date of Sample: 02/14/17
Date Received: 02/14/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

	Client Sample ID:	SB18-10	Detection
	Dilution Factor:	1	Limit
Analyte		(ppm)	(ppm)
Arsenic		31.2	2.0

Analysis Date: 3/3/17

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

Job No: 702073A
Report Date: 04/06/17
Date of Sample: 02/14/17
Date Received: 02/14/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB18-15	SB18-20	Detection
Dilution Factor:	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)
Arsenic	10.5	ND	2.0
Analysis Date:	4/6/17	4/6/17	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

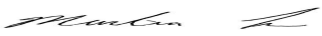
Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01216368.00T3	**Job No:**	702167
	3900 Kilroy Airport Way	**Project Site:**	Prologis	**Report Date:**	02/22/17
	Long Beach, CA		9400 Hall Road	**Date Received:**	02/17/17
				Number of Samples:	29
Attention:				**Sample Matrix:**	Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB3-5	02/17/17	702167-01A
SB3-10	02/17/17	702167-02A
SB3-15	02/17/17	702167-03A
SB3-20	02/17/17	702167-04A
SB2-5	02/17/17	702167-05A
SB2-10	02/17/17	702167-06A
SB2-15	02/17/17	702167-07A
SB2-20	02/17/17	702167-08A
SB4-1	02/17/17	702167-09A
SB4-5	02/17/17	702167-10A
SB4-10	02/17/17	702167-11A
SB5-1	02/17/17	702167-12A
SB5-5	02/17/17	702167-13A
SB5-10	02/17/17	702167-14A
SB19-1	02/17/17	702167-15A
SB19-5	02/17/17	702167-16A
SB19-10	02/17/17	702167-11A
SB6-1	02/17/17	702167-18A
SB6-5	02/17/17	702167-19A
SB6-10	02/17/17	702167-20A
SB9-1	02/17/17	702167-21A
SB9-5	02/17/17	702167-22A
SB9-10	02/17/17	702167-23A
SB7-1	02/17/17	702167-24A
SB7-5	02/17/17	702167-25A
SB7-10	02/17/17	702167-26A
SB8-1	02/17/17	702167-27A
SB8-5	02/17/17	702167-28A
SB8-10	02/17/17	702167-29A

Reviewed and Approved:



For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB3-5	2/17/2017	SB3-10	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
n-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1.3	2.6
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
trans-1,3-Dichloroproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Ethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1.3	6.5
Naphthalene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
n-propylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Tetrachloroethene(PCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Toluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Total Xylenes	ND	µg/kg	1.1	2.2	ND	µg/kg	1.3	2.6
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1.3	325
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
TBA	ND	µg/kg	1.1	55	ND	µg/kg	1.3	65
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1.3	13
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1.3	13
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1.3	13
Acetone	ND	µg/kg	1.1	55	ND	µg/kg	1.3	65
Analysis Date:	02/17/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB3-15	2/17/2017	SB3-20	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromoform	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
n-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
sec-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
tert-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Carbon Tetrachloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chloroform	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
2-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
4-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8	ND	µg/kg	1.2	2.4
Dibromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Dibromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,3-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
2,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
trans-1,3-Dichloproene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Ethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Hexachlorobutadiene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Isopropylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
4-Isopropyltoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Methylene Chloride	ND	µg/kg	0.9	4.5	ND	µg/kg	1.2	6
Naphthalene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
n-propylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Styrene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Toluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Trichloroethene(TCE)	1.01	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Trichlorofluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Vinyl Chloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Total Xylenes	ND	µg/kg	0.9	1.8	ND	µg/kg	1.2	2.4
Ethanol	ND	µg/kg	0.9	225	ND	µg/kg	1.2	300
MTBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
ETBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
DIPE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
TAME	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
TBA	ND	µg/kg	0.9	45	ND	µg/kg	1.2	60
MEK	ND	µg/kg	0.9	9	ND	µg/kg	1.2	12
MIBK	ND	µg/kg	0.9	9	ND	µg/kg	1.2	12
2-Hexanone	ND	µg/kg	0.9	9	ND	µg/kg	1.2	12
Acetone	ND	µg/kg	0.9	45	ND	µg/kg	1.2	60
Analysis Date:	02/17/17				02/17/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167
Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB2-5	2/17/2017	SB2-10	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	1.67	µg/kg	1	1	1.11	µg/kg	0.9	0.9
Toluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	1.71	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	1	250	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	1	50	ND	µg/kg	0.9	45
MEK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	1	50	ND	µg/kg	0.9	45
Analysis Date:	02/17/17				02/17/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167
Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB2-15	2/17/2017	SB2-20	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromoform	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chloroform	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	0.9	4.5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Styrene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Tetrachloroethene(PCE)	1.57	µg/kg	0.9	0.9	2.12	µg/kg	1	1
Toluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Trichloroethene(TCE)	1.78	µg/kg	0.9	0.9	2.35	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	0.9	1.8	ND	µg/kg	1	2
Ethanol	ND	µg/kg	0.9	225	ND	µg/kg	1	250
MTBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
ETBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
DIPE	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
TAME	ND	µg/kg	0.9	0.9	ND	µg/kg	1	1
TBA	ND	µg/kg	0.9	45	ND	µg/kg	1	50
MEK	ND	µg/kg	0.9	9	ND	µg/kg	1	10
MIBK	ND	µg/kg	0.9	9	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	0.9	9	ND	µg/kg	1	10
Acetone	ND	µg/kg	0.9	45	ND	µg/kg	1	50
Analysis Date:	02/17/17				02/17/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB4-5	2/17/2017	SB4-10	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
trans-1,3-Dichloroproene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	0.9	4.5	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Toluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	0.9	1.8	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	0.9	225	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	0.9	45	ND	µg/kg	0.9	45
MEK	ND	µg/kg	0.9	9	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	0.9	9	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	0.9	9	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	0.9	45	ND	µg/kg	0.9	45
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167
Project Site: Prologis **Matrix:** Soil
Project No. 01216368.00T3

Analyte	Sample ID: SB5-5 Sample Date: 2/17/2017 Results	Units	DF	DLR	Sample ID: SB5-10 Sample Date: 2/17/2017 Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	1.39	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB19-1	2/17/2017	SB19-5	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB19-10	2/17/2017	SB6-1	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
trans-1,3-Dichloproene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	0.9	4.5	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Toluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	0.9	1.8	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	0.9	225	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	0.9	0.9	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	0.9	45	ND	µg/kg	1.1	55
MEK	ND	µg/kg	0.9	9	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	0.9	9	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	0.9	9	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	0.9	45	ND	µg/kg	1.1	55
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB6-5	2/17/2017	SB6-10	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	1	50	ND	µg/kg	1.1	55
MEK	ND	µg/kg	1	10	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	1	10	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	1	50	ND	µg/kg	1.1	55
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB9-1	2/17/2017	SB9-5	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
trans-1,3-Dichloroproene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Toluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	1	250	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	1	50	ND	µg/kg	0.9	45
MEK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	1	50	ND	µg/kg	0.9	45
Analysis Date:	02/21/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB9-10	2/17/2017	SB7-1	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
trans-1,3-Dichloroproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	ND	µg/kg	1.1	1.1	1.48	µg/kg	1.1	1.1
Toluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	1.1	2.2	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	1.1	55	ND	µg/kg	1.1	55
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	1.1	55	ND	µg/kg	1.1	55
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB7-5	2/17/2017	SB8-1	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	5.99	µg/kg	1.1	1.1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	1	50	ND	µg/kg	1.1	55
MEK	ND	µg/kg	1	10	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	1	10	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	1	50	ND	µg/kg	1.1	55
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702167

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	SB8-5	2/17/2017	SB8-10	2/17/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
trans-1,3-Dichloroproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	2.69	µg/kg	1.1	1.1	1.75	µg/kg	1.1	1.1
Toluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	1.1	2.2	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	1.1	55	ND	µg/kg	1.1	55
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	1.1	55	ND	µg/kg	1.1	55
Analysis Date:	02/20/17				02/20/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 702167
Report Date: 02/22/17
Date of Sample: 02/17/17
Date Received: 02/17/17
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB3-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB3-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB3-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB3-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB2-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB2-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB2-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB2-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB4-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB4-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB4-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB5-1	mg/kg	ND	1	0.2	127	1	5.0	818	1	10
SB5-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB5-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB19-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB19-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB19-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB6-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB6-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB6-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB9-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB9-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB9-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB7-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB7-5	mg/kg	ND	1	0.2	10.5	1	5.0	41.5	1	10
SB7-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB8-1	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB8-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB8-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Sample Date:		02/17/17			02/17/17			02/17/17		
Analysis Date:		02/17-20/17			02/20/17			02/20/17		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

Job No: 702167
Report Date: 02/22/17
Date of Sample: 02/17/17
Date Received: 02/17/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB2-5	SB2-10	SB4-5	SB4-10	SB5-5	SB6-1	SB9-5	SB7-1	SB7-5	SB8-1	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Arsenic	ND	6.52	7.45	9.41	6.02	3.62	4.68	8.00	6.22	4.94	2.0
Barium	90.4	136	59.8	137	75.1	96.8	123	100	134	81.7	1.0
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Chromium	13.2	17.4	7.97	18.2	16.9	15.5	18.1	17.3	20.4	12.1	1.0
Cobalt	7.99	10.7	4.52	10.4	7.18	9.17	10.3	8.47	11.9	7.18	2.0
Copper	16.2	27.9	6.46	30.5	13.2	22.1	25.7	21.9	33.0	16.5	2.0
Lead	2.39	ND	2.03	ND	3.34	ND	ND	ND	3.56	3.88	2.0
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Nickel	9.02	15.3	3.43	16.1	10.2	12.2	13.7	11.6	17.1	8.78	2.0
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Vanadium	25.4	35.6	17.9	36.8	30.7	32.8	37.1	34.9	40.5	26.2	2.0
Zinc	39.5	49.6	19.8	47.4	45.3	45.1	49.3	42.8	56.6	34.0	5.0
Analysis Date:	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB2-5	SB2-10	SB4-5	SB4-10	SB5-5	SB6-1	SB9-5	SB7-1	SB7-5	SB8-1	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	2/20/17	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: Prologis
Project No: 01216368.00T3

Job No: 702167
Report Date: 02/22/17
Date of Sample: 02/17/17
Date Received: 02/17/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB8-5	Detection
Dilution Factor:	1	Limit
Analyte	(ppm)	(ppm)
Antimony	ND	2.0
Arsenic	ND	2.0
Barium	152	1.0
Beryllium	ND	1.0
Cadmium	ND	1.0
Chromium	20.7	1.0
Cobalt	12.6	2.0
Copper	32.5	2.0
Lead	ND	2.0
Molybdenum	ND	2.0
Nickel	17.5	2.0
Selenium	ND	2.0
Silver	ND	1.0
Thallium	ND	2.0
Vanadium	42.2	2.0
Zinc	53.7	5.0

Analysis Date: 2/20/17

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB8-5	Detection
Dilution Factor:	1	Limit
Analyte	(ppm)	(ppm)
Mercury	ND	0.05

Analysis Date: 2/20/17

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01216368.00T3
Project Site: Prologis
9400 Hall Road
Units: ppb or µg/kg

Job No: 702167
Report Date: 02/22/17
Date of Sample: 02/17/17
Date Received: 02/17/17
Sample Matrix: Soil

Client Sample ID:	SB4-1	SB9-1	Reporting
Dilution Factor:	1	1	Limit
	(ug/kg)	(ug/kg)	(ug/kg)
Aldrin	ND	ND	2.0
Chlordate (total)	ND	ND	2.0
Chlordate (alpha)	ND	ND	2.0
4,4'-DDD	ND	ND	2.0
4,4'-DDE	5.51	ND	2.0
4,4'-DDT	ND	ND	2.0
Dieldrin	ND	ND	2.0
Endosulfan I	ND	ND	2.0
Endosulfan II	ND	ND	2.0
Endosulfan Sulfate	ND	ND	2.0
Endrin	ND	ND	2.0
Endrin aldehyde	ND	ND	2.0
Endrin ketone	ND	ND	2.0
Chlordane (gamma)	ND	ND	2.0
Heptachlor	ND	ND	2.0
Heptachlor epoxide	ND	ND	2.0
Alpha-BHC	ND	ND	2.0
Betta-BHC	ND	ND	2.0
Delta-BHC	ND	ND	2.0
Gamma-BHC, Lindane	ND	ND	2.0
Methoxychlor	ND	ND	10.0
Toxaphene	ND	ND	170.0
Analysis Date:	2/22/17	2/22/17	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 02/20/17 **Job No: 702167**
QC Lab ID: 702167-17A
Units: ppb

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	89.9	91.9	2.2%	30	70-130
Benzene	ND	25	97.5	101.5	4.0%	30	70-130
Trichloroethylene	ND	25	97.5	104.4	6.8%	30	70-130
Toluene	ND	25	116.6	123.9	6.1%	30	70-130
Chlorobenzene	ND	25	111.4	120.4	7.8%	30	70-130

QC Analysis Date: 02/20/17
QC Lab ID: 702167-17A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015B(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	89.3	92.4	3.4%	30	70-130

QC Analysis Date: 02/20/17
QC Lab ID: 702167-29A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015B(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	100	124.2	120.5	3.0%	30	70-130

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 02/20/17 **Job No:** 702167
QC Lab ID: 702167-5A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	100.0	100.0	0.0%	30	70-130
Arsenic	ND	1.00	104.0	107.0	2.8%	30	70-130
Barium	ND	1.00	99.0	92.0	7.3%	30	70-130
Beryllium	ND	1.00	98.0	98.0	0.0%	30	70-130
Cadmium	ND	1.00	102.0	103.0	1.0%	30	70-130
Chromium	ND	1.00	97.0	98.0	1.0%	30	70-130
Cobalt	ND	1.00	97.0	97.0	0.0%	30	70-130
Copper	ND	1.00	96.0	99.0	3.1%	30	70-130
Lead	ND	1.00	100.0	99.0	1.0%	30	70-130
Molybdenum	ND	1.00	102.0	99.0	3.0%	30	70-130
Nickel	ND	1.00	102.0	109.0	6.6%	30	70-130
Selenium	ND	1.00	97.0	99.0	2.0%	30	70-130
Silver	ND	1.00	117.0	115.0	1.7%	30	70-130
Thallium	ND	1.00	100.0	99.0	1.0%	30	70-130
Vanadium	ND	1.00	99.0	99.0	0.0%	30	70-130
Zinc	ND	1.00	109.0	110.0	0.9%	30	70-130

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702161

Job No.: 012/6788.05 73

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com
ADDRESS: 3900 Kilroy Airport Way
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Prologis P.O. No.
SITE ADDRESS: 9400 Hall Road
SAMPLED BY: C. Romanowski EDF
Turn Around Time NORM 24 hr 48 hr X Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081A				
1	SB3-5	2/17/17	625	S			ice	Voa			X	X										
2	SB3-10		629								X	X										
3	SB3-15		630								X	X										
4	SB3-20		649								X	X										
5	SB2-5		703								X	X					X					
6	SB2-10		706								X	X					X					
7	SB2-15		714								X	X										
8	SB2-20		724								X	X										
9	SB4-1		740								X							X				
10	SB4-5		746								X	X	##				X					
11	SB4-10		749								X	X					X					
12	SB5-1		806								X											
13	SB5-5		809								X	X					X					
14	SB5-10		816								X	X										
15	SB19-1		837								X	X										
16	SB19-5		841								X	X										

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS	2/17/17	245
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		MWH	Chem	2/17/17	24T

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702167 68.0 TS

Job No.: 01263

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Pools 3 P.O. No.

SITE ADDRESS: 9400 Hall Road

SAMPLED BY: C. Romanowski ☐ EDF Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☒ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8081A Ocps				
1	SB19-10	2/17/17	845	SO			ice	Voas			X	X										
2	SB6-1		910								X	X					X					
3	SB6-5		914								X	X										
4	SB6-10		917								X	X										
5	SB9-1		944								X	X						X				
6	SB9-5		947								X	X					X					
7	SB9-10		953								X	X										
8	SB7-1		1019								X	X					X					
9	SB7-5		1023								X	X					X					
10	SB7-10		1027								X											
11	SB8-1		1037								X	X					X					
12	SB8-5		1041								X	X					X					
13	SB8-10	↓	1046	↓			↓	↓			X	X										
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS	2/17/17	2:45
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Mark	Chem	2/17/17	2:45

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01216368.00T3	**Job No:**	702068
	3900 Kilroy Airport Way	**Project Site:**	Prologis	**Report Date:**	02/16/17
	Long Beach, CA		9400 Hall Road	**Date Received:**	02/13/17
				Number of Samples:	2
Attention:				**Sample Matrix:**	Groundwater

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
GW2	02/13/17	702068-01A
GW4	02/13/17	702068-02A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702068

Project Site: Prologis **Matrix:** Groundwater

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T3	GW2	2/13/2017	GW4	2/13/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/L	1	1	ND	µg/L	1	1
Bromobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Bromochloromethane	ND	µg/L	1	1	ND	µg/L	1	1
Bromoform	ND	µg/L	1	1	ND	µg/L	1	1
Bromomethane	ND	µg/L	1	1	ND	µg/L	1	1
n-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
sec-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
tert-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Carbon Tetrachloride	ND	µg/L	1	1	ND	µg/L	1	1
Chlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Chloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Chloroform	ND	µg/L	1	1	ND	µg/L	1	1
Chloromethane	ND	µg/L	1	1	ND	µg/L	1	1
2-Chlorotoluene	ND	µg/L	1	1	ND	µg/L	1	1
4-Chlorotoluene	ND	µg/L	1	1	ND	µg/L	1	1
2-Chloroethyl vinyl ether	ND	µg/L	1	2	ND	µg/L	1	2
Dibromochloromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dibromo-3-chloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dibromoethane (EDB)	ND	µg/L	1	1	ND	µg/L	1	1
Dibromomethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,3-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,4-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Dichlorodifluoromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloroethane	1.05	µg/L	1	1	4.47	µg/L	1	1
1,2-Dichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloroethene	1.64	µg/L	1	1	4.77	µg/L	1	1
cis-1,2 Dichloroethene	5.47	µg/L	1	1	20.5	µg/L	1	1
Trans-1,2-Dichloroethene	ND	µg/L	1	1	1.63	µg/L	1	1
1,2-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,3-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
2,2-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloropropene	ND	µg/L	1	1	ND	µg/L	1	1
Cis-1,3-Dichloropropene	ND	µg/L	1	1	ND	µg/L	1	1
trans-1,3-Dichloproene	ND	µg/L	1	1	ND	µg/L	1	1
Ethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Hexachlorobutadiene	ND	µg/L	1	1	ND	µg/L	1	1
Isopropylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
4-Isopropyltoluene	ND	µg/L	1	1	ND	µg/L	1	1
Methylene Chloride	ND	µg/L	1	5	ND	µg/L	1	5
Naphthalene	ND	µg/L	1	1	ND	µg/L	1	1
n-propylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Styrene	ND	µg/L	1	1	ND	µg/L	1	1
1,1,1,2-Tetrachloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1,2,2-Tetrachloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Tetrachloroethene(PCE)	ND	µg/L	1	1	ND	µg/L	1	1
Toluene	ND	µg/L	1	1	ND	µg/L	1	1
1,2,3-Trichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,2,4-Trichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,1,1-Trichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1,2-Trichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Trichloroethene(TCE)	23.6	µg/L	1	1	68.9	µg/L	1	1
Trichlorofluoromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2,3-Trichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,2,4-Trimethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,3,5-Trimethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Vinyl Chloride	ND	µg/L	1	1	ND	µg/L	1	1
Total Xylenes	ND	µg/L	1	2	ND	µg/L	1	2
Ethanol	ND	µg/L	1	250	ND	µg/L	1	250
MTBE	ND	µg/L	1	1	ND	µg/L	1	1
ETBE	ND	µg/L	1	1	ND	µg/L	1	1
DIPE	ND	µg/L	1	1	ND	µg/L	1	1
TAME	ND	µg/L	1	1	ND	µg/L	1	1
TBA	ND	µg/L	1	50	ND	µg/L	1	50
MEK	ND	µg/L	1	10	ND	µg/L	1	10
MIBK	ND	µg/L	1	10	ND	µg/L	1	10
2-Hexanone	ND	µg/L	1	10	ND	µg/L	1	10
Acetone	ND	µg/L	1	50	ND	µg/L	1	50
Analysis Date:	02/16/17				02/16/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 02/16/17
QC Lab ID: 702074-3A
Units: ppb
Job No: 702068

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	91.2	90.9	0.3%	30	70-130
Benzene	ND	25	99.9	101.0	1.1%	30	70-130
Trichloroethylene	ND	25	101.6	102.9	1.3%	30	70-130
Toluene	ND	25	108.2	109.0	0.7%	30	70-130
Chlorobenzene	ND	25	100.8	101.3	0.5%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702068

Job No.: 01210368.00 T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Pedesis P.O. No.

SITE ADDRESS: 9400 Hall Road

SAMPLED BY: C. Romanowski EDF

Turn Around Time NORM 24 hr 48 hr Other (X) 3 day

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
1	GW2	2/13/17	1000	GW			Ice	2 VOA				X										
2	GW4	"	330	"				"				X										
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	2/13/17	545 pm
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martinez	Chemtek	2/13/17	545 pm

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01216368.00T3	**Job No:**	702075
	3900 Kilroy Airport Way	**Project Site:**	Prologis	**Report Date:**	02/16/17
	Long Beach, CA		9400 Hall Road	**Date Received:**	02/14/17
				Number of Samples:	2
Attention:				**Sample Matrix:**	Groundwater

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
GW1	02/14/17	702075-01A
GW5	02/14/17	702075-02A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702075
Project Site: Prologis **Matrix:** Groundwater
Project No. 01216368.00T3

Analyte	Sample ID: GW1 Sample Date: 2/14/2017 Results	Units	DF	DLR	Sample ID: GW5 Sample Date: 2/14/2017 Results	Units	DF	DLR
Benzene	ND	µg/L	1	1	ND	µg/L	1	1
Bromobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Bromochloromethane	ND	µg/L	1	1	ND	µg/L	1	1
Bromoform	ND	µg/L	1	1	ND	µg/L	1	1
Bromomethane	ND	µg/L	1	1	ND	µg/L	1	1
n-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
sec-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
tert-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Carbon Tetrachloride	ND	µg/L	1	1	ND	µg/L	1	1
Chlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Chloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Chloroform	ND	µg/L	1	1	ND	µg/L	1	1
Chloromethane	ND	µg/L	1	1	ND	µg/L	1	1
2-Chlorotoluene	ND	µg/L	1	1	ND	µg/L	1	1
4-Chlorotoluene	ND	µg/L	1	1	ND	µg/L	1	1
2-Chloroethyl vinyl ether	ND	µg/L	1	2	ND	µg/L	1	2
Dibromochloromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dibromo-3-chloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dibromoethane (EDB)	ND	µg/L	1	1	ND	µg/L	1	1
Dibromomethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,3-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,4-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Dichlorodifluoromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloroethane	ND	µg/L	1	1	3.54	µg/L	1	1
1,2-Dichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloroethene	ND	µg/L	1	1	ND	µg/L	1	1
cis-1,2 Dichloroethene	ND	µg/L	1	1	3.27	µg/L	1	1
Trans-1,2-Dichloroethene	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,3-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
2,2-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloropropene	ND	µg/L	1	1	ND	µg/L	1	1
Cis-1,3-Dichloropropene	ND	µg/L	1	1	ND	µg/L	1	1
trans-1,3-Dichloproene	ND	µg/L	1	1	ND	µg/L	1	1
Ethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Hexachlorobutadiene	ND	µg/L	1	1	ND	µg/L	1	1
Isopropylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
4-Isopropyltoluene	ND	µg/L	1	1	ND	µg/L	1	1
Methylene Chloride	ND	µg/L	1	5	ND	µg/L	1	5
Naphthalene	ND	µg/L	1	1	ND	µg/L	1	1
n-propylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Styrene	ND	µg/L	1	1	ND	µg/L	1	1
1,1,1,2-Tetrachloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1,2,2-Tetrachloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Tetrachloroethene(PCE)	ND	µg/L	1	1	ND	µg/L	1	1
Toluene	ND	µg/L	1	1	ND	µg/L	1	1
1,2,3-Trichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,2,4-Trichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,1,1-Trichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1,2-Trichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Trichloroethene(TCE)	ND	µg/L	1	1	7.00	µg/L	1	1
Trichlorofluoromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2,3-Trichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,2,4-Trimethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,3,5-Trimethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Vinyl Chloride	ND	µg/L	1	1	ND	µg/L	1	1
Total Xylenes	ND	µg/L	1	2	ND	µg/L	1	2
Ethanol	ND	µg/L	1	250	ND	µg/L	1	250
MTBE	ND	µg/L	1	1	ND	µg/L	1	1
ETBE	ND	µg/L	1	1	ND	µg/L	1	1
DIPE	ND	µg/L	1	1	ND	µg/L	1	1
TAME	ND	µg/L	1	1	ND	µg/L	1	1
TBA	ND	µg/L	1	50	ND	µg/L	1	50
MEK	ND	µg/L	1	10	ND	µg/L	1	10
MIBK	ND	µg/L	1	10	ND	µg/L	1	10
2-Hexanone	ND	µg/L	1	10	ND	µg/L	1	10
Acetone	ND	µg/L	1	50	ND	µg/L	1	50
Analysis Date:	02/16/17				02/16/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 02/16/17
QC Lab ID: 702074-3A
Units: ppb
Job No: 702075

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	91.2	90.9	0.3%	30	70-130
Benzene	ND	25	99.9	101.0	1.1%	30	70-130
Trichloroethylene	ND	25	101.6	102.9	1.3%	30	70-130
Toluene	ND	25	108.2	109.0	0.7%	30	70-130
Chlorobenzene	ND	25	100.8	101.3	0.5%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702075 ~~702068~~

Job No.: 01210 36P.00 T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com

ADDRESS: 3900 Kilroy Airport

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Peabody P.O. No.

SITE ADDRESS: 9400 Hall Road

SAMPLED BY: C. Herndon ☐ EDF

Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☒ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
1	GW1	2/14/17	1550	GW			ice	3				X										
2	GW5	"	1030	"			"	1				X										
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	2/14/17	632pm
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin L	Chemtk	2/14/17	632

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01216368.00T3	**Job No:**	702104
	3900 Kilroy Airport Way	**Project Site:**	Prologis	**Report Date:**	02/16/17
	Long Beach, CA		9400 Hall Road	**Date Received:**	02/15/17
				Number of Samples:	1
Attention:				**Sample Matrix:**	Groundwater

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
GW3	02/15/17	702104-01A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 702104

Project Site: Prologis **Matrix:** Groundwater

	Sample ID	Sample Date
Project No. 01216368.00T3	GW3	2/15/2017

Analyte	Results	Units	DF	DLR
Benzene	ND	µg/L	1	1
Bromobenzene	ND	µg/L	1	1
Bromochloromethane	ND	µg/L	1	1
Bromoform	ND	µg/L	1	1
Bromomethane	ND	µg/L	1	1
n-Butylbenzene	ND	µg/L	1	1
sec-Butylbenzene	ND	µg/L	1	1
tert-Butylbenzene	ND	µg/L	1	1
Carbon Tetrachloride	ND	µg/L	1	1
Chlorobenzene	ND	µg/L	1	1
Chloroethane	ND	µg/L	1	1
Chloroform	ND	µg/L	1	1
Chloromethane	ND	µg/L	1	1
2-Chlorotoluene	ND	µg/L	1	1
4-Chlorotoluene	ND	µg/L	1	1
2-Chloroethyl vinyl ether	ND	µg/L	1	2
Dibromochloromethane	ND	µg/L	1	1
1,2-Dibromo-3-chloropropane	ND	µg/L	1	1
1,2-Dibromoethane (EDB)	ND	µg/L	1	1
Dibromomethane	ND	µg/L	1	1
1,2-Dichlorobenzene	ND	µg/L	1	1
1,3-Dichlorobenzene	ND	µg/L	1	1
1,4-Dichlorobenzene	ND	µg/L	1	1
Dichlorodifluoromethane	ND	µg/L	1	1
1,1-Dichloroethane	ND	µg/L	1	1
1,2-Dichloroethane	ND	µg/L	1	1
1,1-Dichloroethene	ND	µg/L	1	1
cis-1,2 Dichloroethene	2.50	µg/L	1	1
Trans-1,2-Dichloroethene	ND	µg/L	1	1
1,2-Dichloropropane	ND	µg/L	1	1
1,3-Dichloropropane	ND	µg/L	1	1
2,2-Dichloropropane	ND	µg/L	1	1
1,1-Dichloropropene	ND	µg/L	1	1
Cis-1,3-Dichloropropene	ND	µg/L	1	1
trans-1,3-Dichloroproene	ND	µg/L	1	1
Ethylbenzene	ND	µg/L	1	1
Hexachlorobutadiene	ND	µg/L	1	1
Isopropylbenzene	ND	µg/L	1	1
4-Isopropyltoluene	ND	µg/L	1	1
Methylene Chloride	ND	µg/L	1	5
Naphthalene	ND	µg/L	1	1
n-propylbenzene	ND	µg/L	1	1
Styrene	ND	µg/L	1	1
1,1,1,2-Tetrachloroethane	ND	µg/L	1	1
1,1,2,2-Tetrachloroethane	ND	µg/L	1	1
Tetrachloroethene(PCE)	ND	µg/L	1	1
Toluene	ND	µg/L	1	1
1,2,3-Trichlorobenzene	ND	µg/L	1	1
1,2,4-Trichlorobenzene	ND	µg/L	1	1
1,1,1-Trichloroethane	ND	µg/L	1	1
1,1,2-Trichloroethane	ND	µg/L	1	1
Trichloroethene(TCE)	1.34	µg/L	1	1
Trichlorofluoromethane	ND	µg/L	1	1
1,2,3-Trichloropropane	ND	µg/L	1	1
1,2,4-Trimethylbenzene	ND	µg/L	1	1
1,3,5-Trimethylbenzene	ND	µg/L	1	1
Vinyl Chloride	ND	µg/L	1	1
Total Xylenes	ND	µg/L	1	2
Ethanol	ND	µg/L	1	250
MTBE	ND	µg/L	1	1
ETBE	ND	µg/L	1	1
DIPE	ND	µg/L	1	1
TAME	ND	µg/L	1	1
TBA	ND	µg/L	1	50
MEK	ND	µg/L	1	10
MIBK	ND	µg/L	1	10
2-Hexanone	ND	µg/L	1	10
Acetone	ND	µg/L	1	50

Analysis Date: 02/16/17

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 02/16/17
QC Lab ID: 702074-3A
Units: ppb
Job No: 702104

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	91.2	90.9	0.3%	30	70-130
Benzene	ND	25	99.9	101.0	1.1%	30	70-130
Trichloroethylene	ND	25	101.6	102.9	1.3%	30	70-130
Toluene	ND	25	108.2	109.0	0.7%	30	70-130
Chlorobenzene	ND	25	100.8	101.3	0.5%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

702104

Job No.: 0126368.00 T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: A. Hutcheas Email: ahutcheas@scsengineers.com
ADDRESS: 3900 Kilroy Airport Way
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Prologis P.O. No.
SITE ADDRESS: 9400 Hall Road
SAMPLED BY: C. Romanowski EDF Turn Around Time NORM 24 hr 48 hr X Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
									ANALYSIS REQUIRED													
1	GW3	2/15/17	1200	Gw			ice	3				X										
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS Engineers	2/15/17	434 pm
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin L	Chemtek	2/15/17	434 pm

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01216368.00T4	**Job No:**	703109
	3900 Kilroy Airport Way	**Project Site:**	Prologis	**Report Date:**	03/16/17
	Long Beach, CA		9400 Hall Road	**Date Received:**	03/13/17
				Number of Samples:	10
Attention:				**Sample Matrix:**	Groundwater,Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
GW6-10	03/13/17	703109-01A
GW6-20	03/13/17	703109-02A
GW6-30	03/13/17	703109-03A
GW6-40	03/13/17	703109-04A
GW6-50	03/13/17	703109-05A
GW6-60	03/13/17	703109-06A
GW6-70	03/13/17	703109-07A
GW6-80	03/13/17	703109-08A
GW6	03/13/17	703109-09A
GW8	03/13/17	703109-10A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703109

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW6-10	3/13/2017	GW6-20	3/13/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	03/13/17				03/13/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703109

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW6-30	3/13/2017	GW6-40	3/13/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.4	2.8	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.4	1.4	1.89	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.4	7	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Styrene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1.4	1.4	6.14	µg/kg	1	1
Toluene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1.4	1.4	17.5	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1.4	2.8	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1.4	350	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
TAME	ND	µg/kg	1.4	1.4	ND	µg/kg	1	1
TBA	ND	µg/kg	1.4	70	ND	µg/kg	1	50
MEK	ND	µg/kg	1.4	14	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.4	14	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.4	14	ND	µg/kg	1	10
Acetone	ND	µg/kg	1.4	70	ND	µg/kg	1	50
Analysis Date:	03/13/17				03/13/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703109

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW6-50	3/13/2017	GW6-60	3/13/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	1.2	2.4	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
trans-1,3-Dichloroproene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	1.2	6	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Toluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	1.2	2.4	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	1.2	300	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	1.2	1.2	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	1.2	60	ND	µg/kg	1.1	55
MEK	ND	µg/kg	1.2	12	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	1.2	12	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	1.2	12	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	1.2	60	ND	µg/kg	1.1	55
Analysis Date:	03/14/17				03/13/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703109

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW6-70	3/13/2017	GW6-80	3/13/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1.1	2.2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1.1	5.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1.1	2.2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1.1	275
MTBE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
TAME	ND	µg/kg	1	1	ND	µg/kg	1.1	1.1
TBA	ND	µg/kg	1	50	ND	µg/kg	1.1	55
MEK	ND	µg/kg	1	10	ND	µg/kg	1.1	11
MIBK	ND	µg/kg	1	10	ND	µg/kg	1.1	11
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1.1	11
Acetone	ND	µg/kg	1	50	ND	µg/kg	1.1	55
Analysis Date:	03/13/17				03/13/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703109

Project Site: Prologis **Matrix:** Groundater

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW6	3/13/2017	GW8	3/13/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/L	1	1	ND	µg/L	1	1
Bromobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Bromochloromethane	ND	µg/L	1	1	ND	µg/L	1	1
Bromoform	ND	µg/L	1	1	ND	µg/L	1	1
Bromomethane	ND	µg/L	1	1	ND	µg/L	1	1
n-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
sec-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
tert-Butylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Carbon Tetrachloride	ND	µg/L	1	1	ND	µg/L	1	1
Chlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Chloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Chloroform	ND	µg/L	1	1	ND	µg/L	1	1
Chloromethane	ND	µg/L	1	1	ND	µg/L	1	1
2-Chlorotoluene	ND	µg/L	1	1	ND	µg/L	1	1
4-Chlorotoluene	ND	µg/L	1	1	ND	µg/L	1	1
2-Chloroethyl vinyl ether	ND	µg/L	1	2	ND	µg/L	1	2
Dibromochloromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dibromo-3-chloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dibromoethane (EDB)	ND	µg/L	1	1	ND	µg/L	1	1
Dibromomethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,3-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,4-Dichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
Dichlorodifluoromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloroethene	ND	µg/L	1	1	ND	µg/L	1	1
cis-1,2 Dichloroethene	3.62	µg/L	1	1	ND	µg/L	1	1
Trans-1,2-Dichloroethene	ND	µg/L	1	1	ND	µg/L	1	1
1,2-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,3-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
2,2-Dichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,1-Dichloropropene	ND	µg/L	1	1	ND	µg/L	1	1
Cis-1,3-Dichloropropene	ND	µg/L	1	1	ND	µg/L	1	1
trans-1,3-Dichloproene	ND	µg/L	1	1	ND	µg/L	1	1
Ethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Hexachlorobutadiene	ND	µg/L	1	1	ND	µg/L	1	1
Isopropylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
4-Isopropyltoluene	ND	µg/L	1	1	ND	µg/L	1	1
Methylene Chloride	ND	µg/L	1	5	ND	µg/L	1	5
Naphthalene	ND	µg/L	1	1	ND	µg/L	1	1
n-propylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Styrene	ND	µg/L	1	1	ND	µg/L	1	1
1,1,1,2-Tetrachloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1,2,2-Tetrachloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Tetrachloroethene(PCE)	ND	µg/L	1	1	ND	µg/L	1	1
Toluene	ND	µg/L	1	1	ND	µg/L	1	1
1,2,3-Trichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,2,4-Trichlorobenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,1,1-Trichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
1,1,2-Trichloroethane	ND	µg/L	1	1	ND	µg/L	1	1
Trichloroethene(TCE)	5.79	µg/L	1	1	ND	µg/L	1	1
Trichlorofluoromethane	ND	µg/L	1	1	ND	µg/L	1	1
1,2,3-Trichloropropane	ND	µg/L	1	1	ND	µg/L	1	1
1,2,4-Trimethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
1,3,5-Trimethylbenzene	ND	µg/L	1	1	ND	µg/L	1	1
Vinyl Chloride	ND	µg/L	1	1	ND	µg/L	1	1
Total Xylenes	ND	µg/L	1	2	ND	µg/L	1	2
Ethanol	ND	µg/L	1	250	ND	µg/L	1	250
MTBE	ND	µg/L	1	1	3.37	µg/L	1	1
ETBE	ND	µg/L	1	1	ND	µg/L	1	1
DIPE	ND	µg/L	1	1	ND	µg/L	1	1
TAME	ND	µg/L	1	1	ND	µg/L	1	1
TBA	ND	µg/L	1	50	ND	µg/L	1	50
MEK	ND	µg/L	1	10	ND	µg/L	1	10
MIBK	ND	µg/L	1	10	ND	µg/L	1	10
2-Hexanone	ND	µg/L	1	10	ND	µg/L	1	10
Acetone	ND	µg/L	1	50	ND	µg/L	1	50
Analysis Date:	03/13/17				03/16/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 03/13/17
QC Lab ID: 703109-1A
Units: ppb
Job No: 703109

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	101.2	106.3	4.9%	30	70-130
Benzene	ND	25	100.9	103.6	2.6%	30	70-130
Trichloroethylene	ND	25	102.7	105.6	2.8%	30	70-130
Toluene	ND	25	110.0	114.5	4.0%	30	70-130
Chlorobenzene	ND	25	118.8	121.5	2.2%	30	70-130

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 01216368.00 T4

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com
ADDRESS: 3900 Kilroy Airport Way
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Prologis P.O. No.
SITE ADDRESS: 9400 Hall Road
SAMPLED BY: C. Romanowski ☐ EDF
Turn Around Time: NORM ☐ 24 hr ☐ 48 hr ☐ Other ☒ 72-hr

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
1	GW6-10	3/13/17	914	SO			ice	vials				X										
2	GW6-20		921									X										
3	GW6-30		929									X										
4	GW6-40		941									X										
5	GW6-50		952									X										
6	GW6-60		1006									X										
7	GW6-70		1015									X										
8	GW6-80		1030									X										
9	GW6		1115	GW								X										
10	GW8		430									X										
11																						
12																						
13																						
14																						
15																						
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	[signature]	C. Romanowski	SCS Engineers	3/13/17	557pm
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:	[signature]	[signature]	[signature]	3/13/17	557pm

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01216368.00T4	**Job No:**	703140
	3900 Kilroy Airport Way	**Project Site:**	Prologis	**Report Date:**	03/17/17
	Long Beach, CA		9400 Hall Road	**Date Received:**	03/14/17
				Number of Samples:	9
Attention:				**Sample Matrix:**	Groundwater,Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
GW7-10	03/14/17	703140-01A
GW7-20	03/14/17	703140-02A
GW7-30	03/14/17	703140-03A
GW7-40	03/14/17	703140-04A
GW7-50	03/14/17	703140-05A
GW7-60	03/14/17	703140-06A
GW7-70	03/14/17	703140-07A
GW7-80	03/14/17	703140-08A
GW7	03/14/17	703140-09A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703140

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW7-10	3/14/2017	GW7-20	3/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
trans-1,3-Dichloroproene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	0.9	4.5	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Toluene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	0.9	1.8	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	0.9	225	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	0.9	0.9	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	0.9	45	ND	µg/kg	0.9	45
MEK	ND	µg/kg	0.9	9	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	0.9	9	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	0.9	9	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	0.9	45	ND	µg/kg	0.9	45
Analysis Date:	03/15/17				03/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703140

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW7-30	3/14/2017	GW7-40	3/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	1.13	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	2.57	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	2.33	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1.1	2.2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TBA	ND	µg/kg	1.1	55	ND	µg/kg	1	50
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1	10
Acetone	ND	µg/kg	1.1	55	ND	µg/kg	1	50
Analysis Date:	03/15/17				03/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703140

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW7-50	3/14/2017	GW7-60	3/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.3	2.6	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.3	6.5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Styrene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Toluene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1.3	2.6	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1.3	325	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
TAME	ND	µg/kg	1.3	1.3	ND	µg/kg	1	1
TBA	ND	µg/kg	1.3	65	ND	µg/kg	1	50
MEK	ND	µg/kg	1.3	13	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.3	13	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.3	13	ND	µg/kg	1	10
Acetone	ND	µg/kg	1.3	65	ND	µg/kg	1	50
Analysis Date:	03/15/17				03/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703140

Project Site: Prologis **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01216368.00T4	GW7-70	3/14/2017	GW7-80	3/14/2017

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Toluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	1	250	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	1	50	ND	µg/kg	0.9	45
MEK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	1	50	ND	µg/kg	0.9	45
Analysis Date:	03/15/17				03/15/17			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 703140

Project Site: Prologis **Matrix:** Groundater

	Sample ID	Sample Date
Project No. 01216368.00T4	GW7	3/14/2017

Analyte	Results	Units	DF	DLR
Benzene	ND	µg/L	1	1
Bromobenzene	ND	µg/L	1	1
Bromochloromethane	ND	µg/L	1	1
Bromoform	ND	µg/L	1	1
Bromomethane	ND	µg/L	1	1
n-Butylbenzene	ND	µg/L	1	1
sec-Butylbenzene	ND	µg/L	1	1
tert-Butylbenzene	ND	µg/L	1	1
Carbon Tetrachloride	ND	µg/L	1	1
Chlorobenzene	ND	µg/L	1	1
Chloroethane	ND	µg/L	1	1
Chloroform	ND	µg/L	1	1
Chloromethane	ND	µg/L	1	1
2-Chlorotoluene	ND	µg/L	1	1
4-Chlorotoluene	ND	µg/L	1	1
2-Chloroethyl vinyl ether	ND	µg/L	1	2
Dibromochloromethane	ND	µg/L	1	1
1,2-Dibromo-3-chloropropane	ND	µg/L	1	1
1,2-Dibromoethane (EDB)	ND	µg/L	1	1
Dibromomethane	ND	µg/L	1	1
1,2-Dichlorobenzene	ND	µg/L	1	1
1,3-Dichlorobenzene	ND	µg/L	1	1
1,4-Dichlorobenzene	ND	µg/L	1	1
Dichlorodifluoromethane	ND	µg/L	1	1
1,1-Dichloroethane	1.38	µg/L	1	1
1,2-Dichloroethane	ND	µg/L	1	1
1,1-Dichloroethene	1.12	µg/L	1	1
cis-1,2 Dichloroethene	2.69	µg/L	1	1
Trans-1,2-Dichloroethene	ND	µg/L	1	1
1,2-Dichloropropane	ND	µg/L	1	1
1,3-Dichloropropane	ND	µg/L	1	1
2,2-Dichloropropane	ND	µg/L	1	1
1,1-Dichloropropene	ND	µg/L	1	1
Cis-1,3-Dichloropropene	ND	µg/L	1	1
trans-1,3-Dichloroproene	ND	µg/L	1	1
Ethylbenzene	ND	µg/L	1	1
Hexachlorobutadiene	ND	µg/L	1	1
Isopropylbenzene	ND	µg/L	1	1
4-Isopropyltoluene	ND	µg/L	1	1
Methylene Chloride	ND	µg/L	1	5
Naphthalene	ND	µg/L	1	1
n-propylbenzene	ND	µg/L	1	1
Styrene	ND	µg/L	1	1
1,1,1,2-Tetrachloroethane	ND	µg/L	1	1
1,1,2,2-Tetrachloroethane	ND	µg/L	1	1
Tetrachloroethene(PCE)	ND	µg/L	1	1
Toluene	ND	µg/L	1	1
1,2,3-Trichlorobenzene	ND	µg/L	1	1
1,2,4-Trichlorobenzene	ND	µg/L	1	1
1,1,1-Trichloroethane	ND	µg/L	1	1
1,1,2-Trichloroethane	ND	µg/L	1	1
Trichloroethene(TCE)	5.51	µg/L	1	1
Trichlorofluoromethane	ND	µg/L	1	1
1,2,3-Trichloropropane	ND	µg/L	1	1
1,2,4-Trimethylbenzene	ND	µg/L	1	1
1,3,5-Trimethylbenzene	ND	µg/L	1	1
Vinyl Chloride	ND	µg/L	1	1
Total Xylenes	ND	µg/L	1	2
Ethanol	ND	µg/L	1	250
MTBE	ND	µg/L	1	1
ETBE	ND	µg/L	1	1
DIPE	ND	µg/L	1	1
TAME	ND	µg/L	1	1
TBA	ND	µg/L	1	50
MEK	ND	µg/L	1	10
MIBK	ND	µg/L	1	10
2-Hexanone	ND	µg/L	1	10
Acetone	ND	µg/L	1	50

Analysis Date: 03/15/17

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 03/15/17
QC Lab ID: 703140-2A
Units: ppb
Job No: 703140

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	104.0	107.3	3.1%	30	70-130
Benzene	ND	25	102.2	102.1	0.1%	30	70-130
Trichloroethylene	ND	25	106.7	104.5	2.1%	30	70-130
Toluene	ND	25	111.9	108.6	3.0%	30	70-130
Chlorobenzene	ND	25	118.6	114.6	3.4%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

703140

Job No.: 012/6368.00 74

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: A. Hutchens Email: ahutchens@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Padosis P.O. No.

SITE ADDRESS: 9400 Hall Road

SAMPLED BY: C. Romanowski ☐ EDF

Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☐ Other ☒ 72 hr

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
1	GW7-10	3/14/17	1057	SO			Ice	VOAs				X										
2	GW7-20		1106									X										
3	GW7-30		1114									X										
4	GW7-40		1121									X										
5	GW7-50		1128									X										
6	GW7-60		1140									X										
7	GW7-70		1155									X										
8	GW7-80		1205	↓								X										
9	GW7	↓	1210	GW				↓				X										
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	3/14/17	545 pm
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Mantik	Chemtek	3/14/17	545 pm

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

APPENDIX D

COUNTY OF LOS ANGELES PUBLIC HEALTH WELL PERMIT

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

COUNTY OF LOS ANGELES
Public Health

Well Permit Approval

TO BE COMPLETED BY APPLICANT:

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
9300-9400 Hall Rd; 9301-9399 Stewart & Gray	Downey	90241	cromanowski@scsengineers.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- THIS WELL PERMIT APPROVAL IS LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- ALL FIELD WORK MUST BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF CALIFORNIA.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE
- INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- NOTIFY THE DRINKING WATER PROGRAM BY EMAIL 3 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.

Juan Rodriguez 626-430-5386 or Jurodriguez@ph.lacounty.gov

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

☐ WORK PLAN INCOMPLETE; SUBMIT THE FOLLOWING:

☑ WORK PLAN APPROVED DATE: 2/8/17

Los Angeles County Drinking Water Stamp

REGISTERED ENVIRONMENTAL HEALTH SPECIALIST
COUNTY OF LOS ANGELES
CALIFORNIA

R.E.H.S. NO: 6330

Juan Rodriguez

ADDITIONAL APPROVAL CONDITIONS:

On 2/7/17 $516.00 was paid for Permit # SR0095658 to advance 5 hydropunch locations at above-mentioned site.

☐ ANNULAR SEAL FINAL INSPECTION REQUIRED

DATE ACCEPTED:	REHS signature:

☐ WELL COMPLETION LOG REQUIRED

DATE ACCEPTED:	REHS signature:

☐ WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED

DATE ACCEPTED:	REHS signature:

☐ WATER QUALITY—CHEMICAL STANDARDS REQUIRED

DATE ACCEPTED:	REHS signature:

☐ WATER SUPPLY YIELD REQUIRED

DATE ACCEPTED:	REHS signature:

☐ OTHER REQUIRED

DATE ACCEPTED:	REHS signature:

Appendix H

Asbestos, Lead-Based Paint, and Lead in Drinking Water Sampling Report

Environmental Consultants
and Contractors

3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816

562 426-9544
FAX 562 427-0805
www.scsengineers.com

February 2, 2017
File No. 01216368.00, Task 2

Via email (jfrentzel@prologis.com)

Ms. Janet Frentzel, Environmental & Engineering
Projogis, Inc.
Pier 1, Bay 1
San Francisco, California 94111
(415) 733-9431

Subject: Asbestos, Lead-Based Paint, and Lead in Drinking Water Sampling
Downey Industrial Center
9300, 9350, 9400, and 9402 Hall Road, and
9301, 9333/9363, and 9399 Stewart & Gray Road
Downey, California 90241 (the "Property")

Dear Ms. Frentzel:

In response to your request, SCS Engineers (SCS) performed asbestos, lead-based paint, and lead in drinking water sampling at the above-referenced Property. The field work was conducted on January 10 and 11, 2017. The object of this investigation was to determine the presence, location, and quantity of asbestos, lead-based paint, and lead in drinking water for the above referenced Property prior to planned demolition activities.

The Property, Downey Industrial Center, is located between Hall Road to the north, Woodruff Avenue to the east, Stewart and Gray Road to the south, and Coldbrook Avenue to the west. The Downey Industrial Center consists of 29.16 acres of land and is currently occupied by four, one-story industrial office/warehouse buildings with mezzanine levels that contain a total of approximately 433,143 ft² and were originally constructed from 1951 to 1967. The buildings were observed to be in generally good condition and were occupied by various industrial tenants at the time of the inspection.

A walk-through of the structures was conducted on January 10 and 11, 2017 by Mr. Bob Pilzer of SCS, a State of California (CA) Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant (CAC) and a CA Department of Public Health (DPH) Lead-Related Construction Inspector/Assessor (LRC-IA), and Mr. Christopher Romanowski of SCS, a CA DOSH Certified Site Surveillance Technician (CSST) and a CA DPH Lead-Related Construction Sampling Technician (LRC-ST). Access to the structures was provided by Ms. Janet Frentzel from Prologis, Inc. Photocopies of SCS's asbestos and lead licenses are located in Attachment 2.

ASBESTOS SAMPLING

A total of three-hundred and forty-two (342) bulk samples consisting of a total of five-hundred and fifty-seven (557) layers were collected from the structures for laboratory asbestos analysis. The following suspect building materials were sampled:

9300 Hall Road (Building 1A)

- White/beige 2'x4' drop ceiling tile (with fissures)
- White/beige 2'x4' drop ceiling tile (with pinholes)
- White/brown drywall and white joint compound
- Black 4" cove base and beige mastic
- Gray 4" cove base and beige mastic
- Black 6" cove base and beige mastic
- White ceramic wall tile grout
- Gray ceramic floor tile grout
- Yellow carpet mastic
- Brown/gray 12"x12" floor tile and clear mastic
- Gray 12"x12" floor tile and beige mastic
- White 12"x12" floor tile and yellow mastic
- Blue 12"x12" floor tile and yellow mastic
- Pink 12"x12" floor tile and yellow mastic
- Tan 12"x12" floor tile and yellow mastic

9301 Stewart & Gray Road (Building 1B)

- White textured ceiling plaster
- White/gray 1'x1' ceiling tile (with small pinholes)
- White/brown 1'x1' ceiling tiles (with large pinholes)
- White/brown 1'x1' ceiling tiles (with textured finish)
- White/brown drywall and white joint compound
- Gray window putty
- Black 4" cove base and beige mastic
- Tan 9"x9" floor tile and black mastic
- Tan 12"x12" floor tile and black mastic
- Gray 12"x12" floor tile and clear mastic
- Tan/gray 12"x12" floor tile and yellow mastic
- Tan vinyl flooring and gray 12"x12" floor tile
- Gray vinyl flooring and yellow mastic
- Yellow carpet mastic
- Gray Transite pipe (observed, but not sampled)

9333/9363 Stewart & Gray Road (Building 3)

- Gray/black roofing cap-sheet
- Gray/black roof penetration mastic
- White/brown drywall and white joint compound
- White/gray exterior stucco
- White/brown drywall and white joint compound
- Gray/beige wall plaster and button board
- Black tar paper
- Gray 4" cove base and beige mastic
- White 4" cove base and beige mastic

- Black 4” cove base and beige mastic
- Gray ceramic wall tile grout
- Gray ceramic floor tile grout
- Yellow carpet mastic
- Gray 12”x12” floor tile and yellow mastic
- Brown vinyl flooring and clear mastic

9350 Hall Road (Storage Building)

- White/beige 1’x1’ ceiling tile
- White/beige 2’x4’ drop ceiling tile
- White/brown drywall and white joint compound
- Black 4” cove base and beige mastic
- Gray 12”x12” floor tile and yellow mastic
- Gray vinyl flooring and yellow mastic
- Yellow carpet mastic

9399 Stewart & Gray Road (Building 2B)

- White/brown 1’x1’ ceiling tile
- Brown ceiling tile mastic
- White/brown 2’x4’ drop ceiling tile
- White/brown drywall and white joint compound
- Gray 4” cove base and beige mastic
- Black 4” cove base and brown mastic
- Black 6” cove base and brown mastic
- Brown 4” cove base and beige mastic
- White/yellow ceramic wall tile grout
- Gray ceramic floor tile grout
- Yellow carpet mastic
- Green 9”x9” floor tile and black mastic
- Tan 9”x9” floor tile and black mastic
- Gray 9”x9” floor tile and black mastic
- White vinyl flooring and yellow mastic
- Dark gray 12”x12” floor tile and yellow mastic
- Light gray 12”x12” floor tile and yellow mastic
- Brown 12”x12” floor tile and black mastic
- Tan 12”x12” floor tile and black mastic
- Beige 12”x12” floor tile and yellow mastic
- Gray 12”x12” floor tile and yellow mastic

9400 Hall Road (Building 2A)

- White/brown 1’x1’ ceiling tile and brown mastic
- White/brown drywall and white joint compound
- Brown 4” cove base and beige mastic
- Black 4” cove base and beige mastic

- Brown 4” cove base and yellow mastic
- White 4” cove base and brown mastic
- Gray 6” cove base and beige mastic
- Tan 6” cove base and beige mastic
- Gray ceramic wall tile grout
- Gray ceramic floor tile grout
- Yellow carpet mastic
- Green 9”x9” floor tile and black mastic
- Beige 12”x12” floor tile and brown mastic
- White/tan vinyl flooring and gray mastic
- Gray vinyl flooring and beige mastic
- Tan vinyl flooring and beige mastic
- Black tar paper
- Red exterior stucco

9402 Hall Road (Offices)

- White/brown 1’x1’ ceiling tile
- White/beige 2’x4’ drop ceiling tile
- White/brown drywall and white joint compound
- Black 4” cove base and white mastic
- Black 6” cove base and beige mastic
- Black 12”x12” floor tile and yellow mastic
- Gray 12”x12” floor tile and yellow mastic
- Red 12”x12” floor tile and yellow mastic
- Brown 12”x12” floor tile and yellow mastic
- Yellow carpet mastic

The Chain of Custody form and PLM Bulk Sample Summary Logs located in Attachment 1 of this report provide sample descriptions and identifies the locations of all samples collected from the structure.

Bulk samples of exterior and interior building materials collected from the structure were placed in Whirl-Pak bags, labeled, and transported under chain-of-custody to LA Testing, an American Industrial Hygiene Association (AIHA) and National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for analysis of asbestos content. Bulk samples were analyzed using Polarized Light Microscopy (PLM) and Dispersion Staining in accordance with the Environmental Protection Agency (EPA) Interim Method for the Determination of Asbestos in Bulk Samples (40 CFR 763, Subpart F, Appendix A).

As defined the EPA, any substance that contains more than one percent asbestos (1%) is classified as an Asbestos-Containing Material (ACM). Within the State of California, the Division of Occupational Safety and Health (DOSH) also defines an Asbestos-Containing Construction Material (ACCM) as any manufactured material which contains greater than 1/10 of one percent (0.1%) asbestos by weight. The laboratory’s Limit of Quantification (LOQ) for PLM analysis is 1% asbestos and greater. The designation of “trace” indicates the presence of asbestos below the PLM LOQ.

The LA Testing laboratory report is located in **Attachment 1**. Out of the five-hundred and fifty-seven (557) sample layers collected and analyzed, a total of thirteen (13) samples (gray window putty, tan vinyl flooring, gray 12"x12" floor tile and associated black mastic, white joint compound, yellow carpet mastic, gray 9"x9" floor tile and associated black mastic, black mastic associated with brown 12"x12" floor tile, black mastic associated with tan 12"x12 floor tile, yellow carpet mastic, black mastic associated with green 9"x9" floor tile, and white/tan/gray vinyl flooring) contained asbestos at concentrations over 1.0 percent, and two (2) samples (yellow mastic associated with tan/gray 12"x12" floor tile) contained "trace" concentrations of asbestos less than 1%. A total of seventeen (17) samples were not analyzed due to "positive stops" (previously analyzed homogeneous materials found to be positive or asbestos-containing). The remaining five-hundred and twenty-five (525) samples did **not** contain asbestos above the PLM LOQ. As stated above, the following materials tested positive for asbestos:

9300 Hall Road (Building 1A)

- None of the sampled suspect materials in Building 1A were found to contain asbestos.

9301 Stewart & Gray Road (Building 1B)

- The gray window putty was found to contain 4% chrysotile. A total of approximately 220 linear feet of gray window putty was observed throughout the exterior walls of Building 1B.

- The yellow mastic associated with the tan/gray 12"x12" floor tile was found to contain <1% chrysotile. A total of approximately 200 square feet of yellow mastic with associated tan/gray 12"x12" floor tile was observed in the office area of Building 1B.

- The tan vinyl flooring (top layer) was found to contain 15% chrysotile, the gray 12"x12" floor tile (bottom layer) was found to contain 15% chrysotile, and the associated mastic was found to contain 5% chrysotile. A total of approximately 400 square feet of tan vinyl flooring, gray 12"x12" floor tile, and associated mastic was observed in the office area on the 2nd floor of Building 1B.

- A gray Transite pipe was also observed during the inspection. The Transite pipe was not sampled but is presumed to contain asbestos. Approximately 30 linear feet of 8" outside diameter pipe was observed in the warehouse area of Building 1B.

9400 Hall Road (Building 2A)

- The yellow carpet mastic was found to contain 3% chrysotile. A total of approximately 800 square feet of yellow carpet mastic was observed throughout the office area of Building 2A.

- The black mastic associated with the green 9"x9" floor tile was found to contain 3% chrysotile. A total of approximately 400 square feet of black mastic with associated green 9"x9" floor tile was observed in the warehouse office in Building 2A.

- The white/tan/gray vinyl flooring was found to contain 25% chrysotile. A total of approximately 400 square feet of white/tan/gray vinyl flooring was observed on the 2nd floor in the warehouse office in Building 2A.

9399 Stewart & Gray Road (Building 2B)

- The gray 9"x9" floor tile was found to contain 5% chrysotile, and the associated black mastic was found to contain 2% chrysotile. A total of approximately 200 square feet of gray 9"x9" floor tile and associated black mastic was observed in the office area of Building 2B.

- The black mastic associated with the brown 12"x12" floor tile was found to contain 3% chrysotile. A total of approximately 100 square feet of black mastic with associated brown 12"x12" floor tile was observed in the office area of Building 2B.

- The black mastic associated with the tan 12"x12" floor tile was found to contain 2% chrysotile. A total of approximately 200 square feet of black mastic with associated tan 12"x12" floor tile was observed in the office area of Building 2B.

9333/9363 Stewart & Gray Road (Building 3)

- The white joint compound associated with the white/brown drywall was found to contain 2% chrysotile. A total of approximately 9,000 square feet of white joint compound and associated white/brown drywall was observed throughout the ceilings and walls of Suite #101 in Building 3.

- The yellow carpet mastic was found to contain 2% chrysotile. A total of approximately 2,400 square feet of yellow carpet mastic was observed throughout Suite #101 in Building 3.

9350 Hall Road (Storage Building)

- None of the sampled suspect materials in the Storage Building were found to contain asbestos.

9402 Hall Road (Offices)

- None of the sampled suspect materials in the Offices were found to contain asbestos.

The confirmed ACMs found were observed to be in good condition at the time of the inspection.

LEAD-BASED PAINT SAMPLING

SCS conducted a lead surface coating inspection on January 10 and 11, 2017. Note that only major paint systems and/or those paint systems that were observed to be in poor condition (i.e., loose and flaky) at the time of the inspection were targeted for sampling. All of the painted

surfaces were observed to be in generally good condition at the time of the survey.

SCS tested readily accessible painted surfaces of the structures for lead in general accordance with HUD Title 10, 40 CFR Part 745 and Title 24 Part 35 by collecting paint chip and bulk samples.

A total of eighteen (18) composite bulk samples of paint chips were collected for analysis by use of hand tools. A **Bulk Sample Summary Log** (enclosed) provides a description and identifies locations of the paint chip samples collected from the structures. The following painted surfaces were sampled:

9300 Hall Road (Building 1A)

- White paint on interior wall in office area
- Dark pink paint on interior wall in warehouse breakroom
- Light pink paint on interior wall in warehouse bathroom

9301 Stewart & Gray Road (Building 1B)

- White paint on interior wall in office area
- Gray paint on interior wall in office area – 2nd floor
- Yellow paint on interior wall in warehouse/office area
- Brown paint on interior wall in office area

9400 Hall Road (Building 2A)

- White paint on interior wall in office area – 1st floor
- Green paint on interior wall in office area – 2nd floor

9399 Stewart & Gray Road (Building 2B)

- Green paint on interior wall in office area
- White paint on interior wall in office area

9333/9363 Stewart & Gray Road (Building 3)

- Green paint on interior wall in office area (#101)
- White paint on interior wall in office area (#108)

9350 Hall Road (Storage Building)

- Green paint on interior wall in office area
- White paint on interior wall in restroom

9402 Hall Road (Offices)

- White paint on interior wall in office area
- Green paint on interior wall in office area
- Tan paint on interior wall in office area

Paint samples collected during the inspection were placed in plastic Ziplock bags, labeled, and transported under Chain-of-Custody to LA Testing. All paint samples were analyzed using EPA Method 7000 with EPA Method 3050 used for sample digestion.

Under various guidelines, LBP is typically defined as paint containing lead at concentrations equal to or exceeding 0.06% lead by weight or 600 mg/kg (milligrams per kilogram, equivalent to parts per million [ppm]).

The LA Testing laboratory report for suspect LBP is enclosed. Out of the eighteen (18) paint samples collected, a total of two (2) paint samples were found to contain concentrations of lead greater than 0.06% lead by weight. One (1) paint sample was found to contain a concentration of lead greater than the LOQ (0.01%) but less than 0.06% lead by weight. The remaining fifteen (15) paint samples did **not** contain concentrations of lead greater than the LOQ (<0.01%). A summary of the LBP findings, by building, is presented below:

9300 Hall Road (Building 1A)

- None of the sampled suspect paint in Building 1A was found to contain concentrations of lead greater than the LOQ

9301 Stewart & Gray Road (Building 1B)

- Gray paint on the interior walls of the office area on the 2nd floor of Building 1B (0.015%) – above the LOQ but less than the 0.06% guideline
- None of the remaining sampled suspect paint in Building 1B was found to contain concentrations of lead greater than the LOQ

9400 Hall Road (Building 2A)

- White paint on the interior walls of the office area on the 1st floor of Building 2A (0.11% lead by weight) – approximately 1,200 ft.²
- Green paint on the interior walls of the office area on the 2nd floor of Building 2A (0.24% lead by weight) – approximately 1,200 ft.²

9399 Stewart & Gray Road (Building 2B)

- None of the sampled suspect paint in Building2B was found to contain concentrations of lead greater than the LOQ

9333/9363 Stewart & Gray Road (Building 3)

- None of the sampled suspect paint in Building 3 was found to contain concentrations of lead greater than the LOQ

9350 Hall Road (Storage Building)

- None of the sampled suspect paint in the Storage Building was found to contain concentrations of lead greater than the LOQ

9402 Hall Road (Offices)

- None of the sampled suspect paint in the Offices was found to contain concentrations of lead greater than the LOQ

Based on these results, other similar paint systems to those identified above should also be considered to be lead-containing.

DOSH guidelines (Title 8, California Code of Regulations, Section 1532.1) are applicable to occupational exposures to potential lead-containing materials during renovation or demolition activities. DOSH guidelines indicate that coatings or materials containing lead may constitute a health hazard to employees engaged in lead-related construction work. Poisonings may occur if workers or visitors ingest or inhale lead-containing materials or paint.

As described above, this survey identified painted systems as containing lead at levels that may constitute a health hazard to workers. Procedures should be established whereby all personnel and contractors who may be conducting demolition on the structures are informed, prior to initiating work, as to the presence of lead and any other lead-containing materials, their location and condition.

LEAD IN DRINKING WATER SAMPLING

SCS conducted lead in drinking water sampling on January 10 and 11, 2017. SCS collected a total of four (4) "first draw" drinking water samples from the following locations:

- 9399/9363 Stewart and Gray Road (Building 3): The breakroom sink in Suite #101 of Building 3.
- 9399 Stewart and Gray Road (Building 2B): The breakroom sink in the 2nd floor office area of Building 2B.
- 9300 Hall Road (Building 1A): The breakroom sink in the 2nd floor office area of Building 1A.
- 9350 Hall Road (Storage Building): The breakroom sink on the 1st floor of the Storage Building.

Samples were collected from each of the four (4) major buildings to obtain representative coverage of the Property. All four (4) areas that the drinking water samples were collected from were occupied, and the samples were collected from the most probable drinking water sources in the buildings (i.e. breakroom sinks). The samples were collected into 250-milliliter plastic bottles preserved with nitric acid, labeled, and placed in a chilled cooler for transport to American Environmental Testing Laboratory Inc. (AETL) of Burbank, California.

AETL analyzed the drinking water samples using EPA Method 200.8. AETL is certified by the California Department of Health Services to conduct the specified analysis. The AETL laboratory report, chain-of-custody documentation, and quality assurance/quality control (QA/QC) data are attached to this report. Analytical results are summarized below:

- 9399/9363 Stewart and Gray Road (Building 3): The breakroom sink in Suite #101 of Building 3 – 2.09 micrograms per liter (µg/L).
- 9399 Stewart and Gray Road (Building 2B): The breakroom sink in the 2nd floor office area of Building 2B – Not Detected (ND).
- 9300 Hall Road (Building 1A): The breakroom sink in the 2nd floor office area of Building 1A – 1.09 µg/L.
- 9350 Hall Road (Storage Building): The breakroom sink on the 1st floor of the Storage Building – 0.946 µg/L.

All four (4) drinking water samples were found to contain concentrations of lead that were below the EPA action level for drinking water of 15 µg/L.

CONCLUSIONS AND RECOMMENDATIONS

Asbestos Sampling

The following materials tested positive for asbestos:

9301 Stewart & Gray Road (Building 1B)

- The gray window putty was found to contain 4% chrysotile. A total of approximately 220 linear feet of gray window putty was observed throughout the exterior walls of Building 1B.

- The yellow mastic associated with the tan/gray 12”x12” floor tile was found to contain <1% chrysotile. A total of approximately 200 square feet of yellow mastic with associated tan/gray 12”x12” floor tile was observed in the office area of Building 1B.

- The tan vinyl flooring (top layer) was found to contain 15% chrysotile, the gray 12”x12” floor tile (bottom layer) was found to contain 15% chrysotile, and the associated mastic was found to contain 5% chrysotile. A total of approximately 400 square feet of tan vinyl flooring, gray 12”x12” floor tile, and associated mastic was observed in the office area on the 2nd floor of Building 1B.

- A gray Transite pipe was also observed during the inspection. The Transite pipe was not sampled but is presumed to contain asbestos. Approximately 30 linear feet of 8" outside diameter pipe was observed in the warehouse area of Building 1B.

9333/9363 Stewart & Gray Road (Building 3)

- The white joint compound associated with the white/brown drywall was found to contain 2% chrysotile. A total of approximately 9,000 square feet of white joint compound and associated white/brown drywall was observed throughout the ceilings and walls of Suite #101 in Building 3.

- The yellow carpet mastic was found to contain 2% chrysotile. A total of approximately 2,400 square feet of yellow carpet mastic was observed throughout Suite #101 in Building 3.

9399 Stewart & Gray Road (Building 2B)

- The gray 9"x9" floor tile was found to contain 5% chrysotile, and the associated black mastic was found to contain 2% chrysotile. A total of approximately 200 square feet of gray 9"x9" floor tile and associated black mastic was observed in the office area of Building 2B.

- The black mastic associated with the brown 12"x12" floor tile was found to contain 3% chrysotile. A total of approximately 100 square feet of black mastic with associated brown 12"x12" floor tile was observed in the office area of Building 2B.

- The black mastic associated with the tan 12"x12" floor tile was found to contain 2% chrysotile. A total of approximately 200 square feet of black mastic with associated tan 12"x12" floor tile was observed in the office area of Building 2B.

9400 Hall Road (Building 2A)

- The yellow carpet mastic was found to contain 3% chrysotile. A total of approximately 800 square feet of yellow carpet mastic was observed throughout the office area of Building 2A.

- The black mastic associated with the green 9"x9" floor tile was found to contain 3% chrysotile. A total of approximately 400 square feet of black mastic with associated green 9"x9" floor tile was observed in the warehouse office in Building 2A.

- The white/tan/gray vinyl flooring was found to contain 25% chrysotile. A total of approximately 400 square feet of white/tan/gray vinyl flooring was observed on the 2nd floor in the warehouse office in Building 2A.

Window putty, vinyl flooring, 9”x9” floor tile, 12”x12” floor tile, floor tile mastic, carpet mastic, joint compound, and Transite pipe are non-friable ACMs (a friable ACM is defined as a material that can be crumbled, pulverized, or reduced to a powder by hand pressure, potentially releasing airborne asbestos fibers) and is not anticipated to release asbestos fibers until abated.

Prior to demolition, a Licensed State of California abatement contractor must remove all known ACM consistent with applicable DOSH (Title 8. Industrial Relations, Division 1. Department of Industrial Relations, Chapter 4. Division of Industrial Safety, Subchapter 4. Construction Safety Orders, Article 4. Dusts, Fumes, Mists, Vapors, and Gases, Section 1529. Asbestos) and South Coast Air Quality Management District (SCAQMD, Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities) guidelines. It is also recommended that the abatement contractor demonstrate adequate qualifications and provide sufficient insurance coverage to perform the asbestos removal project. **The estimated cost for asbestos abatement is $35,000.**

SCS recommends that when ACM abatement is performed that it be overseen by an independent third-party consultant who is qualified to provide these services (i.e. a CAC or a Certified Site Surveillance Technician [CSST]).

Lead-Based Paint Sampling

The following materials tested positive for lead greater than the 0.06% guideline:

9400 Hall Road (Building 2A)

- White paint on the interior walls of the office area on the 1st floor of Building 2A (0.11% lead by weight) – approximately 1,200 ft.²
- Green paint on the interior walls of the office area on the 2nd floor of Building 2A (0.24% lead by weight) – approximately 1,200 ft.²

DOSH guidelines (Title 8, California Code of Regulations, Section 1532.1) are applicable to occupational exposures to potential LBP or lead-containing materials during renovation or demolition activities. Coatings or materials containing lead may constitute a health hazard to employees engaged in lead-related construction work as lead dust becomes airborne during construction activities. Poisonings may occur if workers or visitors ingest lead and/or inhale lead dust.

Based on analytical results, lead at concentrations that exceed 0.06% lead by weight or 600 mg/kg are present in painted systems as identified above. Contractors involved in renovation or demolition activities should be informed of the presence of and potential health hazards associated with lead. Care should be taken to protect workers (i.e., respiratory protection) when disturbing lead-containing materials during renovation or demolition activities. **The estimated cost for lead-based paint abatement is $3,000.**

Lead in Drinking Water Sampling

- All four (4) drinking water samples were found to contain concentrations of lead that were below the EPA action level of 15 µg/L. No further action is recommended at this time.

LIMITATIONS/DISCLAIMER

This report has been specifically prepared for use and reliance by Prologis, Inc. with application to a survey for ACMs, LBP, and lead in drinking water within the structures located at **Downey Industrial Center**. This report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either express or implied, is made as to the opinions presented herein. No other party, known or unknown to SCS, is intended as a beneficiary of this work product, its content, or information embedded therein. Third parties use this report at their own risk. SCS assumes no responsibilities for the accuracy of information obtained, compiled, or provided by others.

This report and analysis represent a limited characterization of materials within the subject structures. Not all of the suspect materials were sampled within each room or common area. Only a representative number of samples were collected from suspect materials within each homogeneous area regardless of the number of areas it was observed in. In addition, no attempt was made to provide a valid statistical approach to completely characterize all of the asbestos within the structures. Note that additional ACMs or LBP may be present within wall or attic spaces, plenums, mechanical systems, etc. that were not accessible during this inspection. Prior to being disturbed during renovation and/or demolition activities, any suspect building material not characterized during this inspection should be appropriately characterized.

CLOSURE

Thank you for the opportunity to work with you on this project. Please call if you have any questions regarding this assessment.

Respectfully submitted,

Bob Pilzer, CAC, LRC-IA, REPA
Project Manager
SCS ENGINEERS

Kevin W. Green, PG
Vice President
SCS ENGINEERS

Attachments: Laboratory Results and Chain of Custody Forms
SCS Licenses

Attachment 1

Laboratory Results
&
Chain of Custody Forms

EMSL Analytical, Inc.

3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134

Tel/Fax: (206) 269-6310 / (206) 900-8789

http://www.emsl.com / seattlelab@emsl.com

EMSL Order:	511700150
Customer ID:	SCSE34
Customer PO:	
Project ID:	

Attention:	Bob Pilzer	**Phone:**	(562) 426-9544
	SCS Engineers	**Fax:**	(562) 427-0805
	3900 Kilroy Airport Way	**Received Date:**	01/17/2017 10:55 AM
	Suite 100	**Analysis Date:**	01/20/2017 - 01/24/2017
	Long Beach, CA 90806	**Collected Date:**	
Project:	01216368.00, Task 2/Downey Industrial		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
01 *511700150-0001*	White/beige 2'x4' drop ceiling tile (with fissures), Office area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
02 *511700150-0002*	White/beige 2'x4' drop ceiling tile (with fissures), Office area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
03 *511700150-0003*	White/beige 2'x4' drop ceiling tile (with fissures), Office area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
04 *511700150-0004*	White/beige 2'x4' drop ceiling tile (with pinholes), Office area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
05 *511700150-0005*	White/beige 2'x4' drop ceiling tile (with pinholes), Office area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
06 *511700150-0006*	White/beige 2'x4' drop ceiling tile (with pinholes), Office area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
07 *511700150-0007*	White/beige 2'x4' drop ceiling tile (with pinholes), Storage area	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
08 *511700150-0008*	White/beige 2'x4' drop ceiling tile (with pinholes), Storage area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
09 *511700150-0009*	White/beige 2'x4' drop ceiling tile (with pinholes), Storage area	Brown Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
10-Joint Compound *511700150-0010*	White/brown drywall/joint compound, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-Joint Compound 2 *511700150-0010A*	White/brown drywall/joint compound, Office - 1st floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-Drywall *511700150-0010B*	White/brown drywall/joint compound, Office - 1st floor	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
11-Joint Compound *511700150-0011*	White/brown drywall/joint compound, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-Drywall *511700150-0011A*	White/brown drywall/joint compound, Office - 1st floor	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
12-Joint Compound *511700150-0012*	White/brown drywall/joint compound, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12-Joint Compound 2 *511700150-0012A*	White/brown drywall/joint compound, Office - 1st floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12-Drywall *511700150-0012B*	White/brown drywall/joint compound, Office - 1st floor	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
13-Joint Compound *511700150-0013*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13-Drywall *511700150-0013A*	White/brown drywall/joint compound, Office - 2nd floor	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
14-Joint Compound *511700150-0014*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-Joint Compound 2 *511700150-0014A*	White/brown drywall/joint compound, Office - 2nd floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-Drywall *511700150-0014B*	White/brown drywall/joint compound, Office - 2nd floor	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
15-Joint Compound *511700150-0015*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15-Drywall *511700150-0015A*	White/brown drywall/joint compound, Office - 2nd floor	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
16-Joint Compound *511700150-0016*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-Drywall *511700150-0016A*	White/brown drywall/joint compound, Office - 2nd floor	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
17-Joint Compound *511700150-0017*	White/brown drywall/joint compound, Warehouse	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-Drywall *511700150-0017A*	White/brown drywall/joint compound, Warehouse	Gray Non-Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
18-Joint Compound *511700150-0018*	White/brown drywall/joint compound, Warehouse	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18-Drywall *511700150-0018A*	White/brown drywall/joint compound, Warehouse	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
19 *511700150-0019*	White/brown drywall/joint compound, Warehouse	White Non-Fibrous Homogeneous		50% Gypsum 50% Non-fibrous (Other)	None Detected
20-Joint Compound *511700150-0020*	White/brown drywall/joint compound, Warehouse	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-Drywall *511700150-0020A*	White/brown drywall/joint compound, Warehouse	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
21-Joint Compound *511700150-0021*	White/brown drywall/joint compound, Warehouse	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-Drywall *511700150-0021A*	White/brown drywall/joint compound, Warehouse	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
22-Cove Base *511700150-0022*	Black/beige 4" cove base/mastic, Office - 1st floor	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22-Mastic *511700150-0022A*	Black/beige 4" cove base/mastic, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Cove Base *511700150-0023*	Black/beige 4" cove base/mastic, Office - 1st floor	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Mastic *511700150-0023A*	Black/beige 4" cove base/mastic, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-Cove Base *511700150-0024*	Black/beige 4" cove base/mastic, Office - 1st floor	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-Mastic *511700150-0024A*	Black/beige 4" cove base/mastic, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-Cove Base *511700150-0025*	Gray/beige 4" cove base/mastic, Office - 2nd floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-Mastic *511700150-0025A*	Gray/beige 4" cove base/mastic, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26-Cove Base *511700150-0026*	Gray/beige 4" cove base/mastic, Office - 2nd floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26-Mastic *511700150-0026A*	Gray/beige 4" cove base/mastic, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
27-Cove Base *511700150-0027*	Gray/beige 4" cove base/mastic, Office - 2nd floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27-Mastic *511700150-0027A*	Gray/beige 4" cove base/mastic, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-Cove Base *511700150-0028*	Black/beige 6" cove base/mastic, Break room	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-Mastic *511700150-0028A*	Black/beige 6" cove base/mastic, Break room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-Cove Base *511700150-0029*	Black/beige 6" cove base/mastic, Break room	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-Mastic *511700150-0029A*	Black/beige 6" cove base/mastic, Break room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-Cove Base *511700150-0030*	Black/beige 6" cove base/mastic, Break room	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-Mastic *511700150-0030A*	Black/beige 6" cove base/mastic, Break room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31 *511700150-0031*	White ceramic wall tile grout, Bathroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32 *511700150-0032*	White ceramic wall tile grout, Bathroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33 *511700150-0033*	White ceramic wall tile grout, Bathroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34 *511700150-0034*	Gray ceramic floor tile grout, Bathroom	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
35 *511700150-0035*	Gray ceramic floor tile grout, Bathroom	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
36 *511700150-0036*	Gray ceramic floor tile grout, Bathroom	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
37 *511700150-0037* *Result includes a small amount of inseparable attached material*	Yellow carpet mastic, Office	Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
38 *511700150-0038* *Result includes a small amount of inseparable attached material*	Yellow carpet mastic, Office	Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
39 *511700150-0039* *Result includes a small amount of inseparable attached material*	Yellow carpet mastic, Office	Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
40-Floor Tile *511700150-0040*	Brown/gray 12"x12" floor tile/mastic, Break room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
40-Mastic *511700150-0040A*	Brown/gray 12"x12" floor tile/mastic, Break room	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41-Floor Tile *511700150-0041*	Brown/gray 12"x12" floor tile/mastic, Break room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41-Mastic *511700150-0041A*	Brown/gray 12"x12" floor tile/mastic, Break room	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
42-Floor Tile *511700150-0042*	Brown/gray 12"x12" floor tile/mastic, Break room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
42-Mastic *511700150-0042A*	Brown/gray 12"x12" floor tile/mastic, Break room	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43-Floor Tile *511700150-0043*	Gray/beige 12"x12" floor tile/mastic, Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43-Mastic *511700150-0043A* *Result includes a small amount of inseparable attached material*	Gray/beige 12"x12" floor tile/mastic, Storage	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44-Floor Tile *511700150-0044*	Gray/beige 12"x12" floor tile/mastic, Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44-Mastic *511700150-0044A* *Result includes a small amount of inseparable attached material*	Gray/beige 12"x12" floor tile/mastic, Storage	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-Floor Tile *511700150-0045*	Gray/beige 12"x12" floor tile/mastic, Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-Mastic *511700150-0045A* *Result includes a small amount of inseparable attached material*	Gray/beige 12"x12" floor tile/mastic, Storage	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46-Floor Tile *511700150-0046*	White/yellow 12"x12" floor tile/mastic, Warehouse office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46-Mastic *511700150-0046A* *Result includes a small amount of inseparable attached material*	White/yellow 12"x12" floor tile/mastic, Warehouse office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47-Floor Tile *511700150-0047*	White/yellow 12"x12" floor tile/mastic, Warehouse office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47-Mastic *511700150-0047A*	White/yellow 12"x12" floor tile/mastic, Warehouse office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48-Floor Tile *511700150-0048*	White/yellow 12"x12" floor tile/mastic, Warehouse office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48-Mastic *511700150-0048A*	White/yellow 12"x12" floor tile/mastic, Warehouse office	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
49-Floor Tile *511700150-0049*	Blue/yellow 12"x12" floor tile/mastic, Warehouse break room	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
49-Mastic *511700150-0049A*	Blue/yellow 12"x12" floor tile/mastic, Warehouse break room	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
50-Floor Tile *511700150-0050*	Blue/yellow 12"x12" floor tile/mastic, Warehouse break room	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
50-Mastic *511700150-0050A*	Blue/yellow 12"x12" floor tile/mastic, Warehouse break room	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51-Floor Tile *511700150-0051*	Blue/yellow 12"x12" floor tile/mastic, Warehouse break room	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51-Mastic *511700150-0051A*	Blue/yellow 12"x12" floor tile/mastic, Warehouse break room	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-Floor Tile *511700150-0052*	Pink/yellow 12"x12" floor tile/mastic, Warehouse bathroom	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-Mastic *511700150-0052A*	Pink/yellow 12"x12" floor tile/mastic, Warehouse bathroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-Floor Tile *511700150-0053*	Pink/yellow 12"x12" floor tile/mastic, Warehouse bathroom	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-Mastic *511700150-0053A*	Pink/yellow 12"x12" floor tile/mastic, Warehouse bathroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
54-Floor Tile *511700150-0054*	Pink/yellow 12"x12" floor tile/mastic, Warehouse bathroom	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
54-Mastic *511700150-0054A*	Pink/yellow 12"x12" floor tile/mastic, Warehouse bathroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
55-Floor Tile *511700150-0055*	Tan/yellow 12"x12" floor tile/mastic, Wharehouse building	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
55-Mastic *511700150-0055A*	Tan/yellow 12"x12" floor tile/mastic, Wharehouse building	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
56-Floor Tile *511700150-0056*	Tan/yellow 12"x12" floor tile/mastic, Wharehouse building	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
56-Mastic *511700150-0056A*	Tan/yellow 12"x12" floor tile/mastic, Wharehouse building	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
57-Floor Tile *511700150-0057*	Tan/yellow 12"x12" floor tile/mastic, Wharehouse building	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
57-Mastic *511700150-0057A*	Tan/yellow 12"x12" floor tile/mastic, Wharehouse building	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
58 *511700150-0058*	White textured ceiling plaster, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
59 *511700150-0059*	White textured ceiling plaster, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
60 *511700150-0060*	White textured ceiling plaster, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
61 *511700150-0061*	White textured ceiling plaster, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
62 *511700150-0062*	White textured ceiling plaster, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
63 *511700150-0063*	White textured ceiling plaster, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
64 *511700150-0064*	White textured ceiling plaster, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65 *511700150-0065*	White/gray 1'x1' ceiling tile (small pinholes), Office	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
66 *511700150-0066*	White/gray 1'x1' ceiling tile (small pinholes), Office	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
67 *511700150-0067*	White/gray 1'x1' ceiling tile (small pinholes), Office	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
68 *511700150-0068*	White/brown 1'x1' ceiling tile (large pinholes), Office	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
69 *511700150-0069*	White/brown 1'x1' ceiling tile (large pinholes), Office	Brown Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
70 *511700150-0070*	White/brown 1'x1' ceiling tile (large pinholes), Office	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
71 *511700150-0071*	White/brown 1'x'1 ceiling tile (textured), Office	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
72 *511700150-0072*	White/brown 1'x'1 ceiling tile (textured), Office	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
73 *511700150-0073*	White/brown 1'x'1 ceiling tile (textured), Office	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
74-Joint Compound *511700150-0074*	White/brown drywall/joint compound, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
74-Drywall *511700150-0074A*	White/brown drywall/joint compound, Office - 1st floor	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
75-Joint Compound *511700150-0075*	White/brown drywall/joint compound, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
75-Drywall *511700150-0075A*	White/brown drywall/joint compound, Office - 1st floor	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
76-Joint Compound *511700150-0076*	White/brown drywall/joint compound, Office - 1st floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
76-Drywall *511700150-0076A*	White/brown drywall/joint compound, Office - 1st floor	Gray Non-Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
77-Joint Compound *511700150-0077*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
77-Drywall *511700150-0077A*	White/brown drywall/joint compound, Office - 2nd floor	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
78-Joint Compound *511700150-0078*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
78-Drywall *511700150-0078A*	White/brown drywall/joint compound, Office - 2nd floor	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
79-Joint Compound *511700150-0079*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
79-Drywall *511700150-0079A*	White/brown drywall/joint compound, Office - 2nd floor	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
80-Joint Compound *511700150-0080*	White/brown drywall/joint compound, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
80-Drywall *511700150-0080A*	White/brown drywall/joint compound, Office - 2nd floor	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
81 *511700150-0081*	Gray window putty, Warehouse	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
82 *511700150-0082*	Gray window putty, Warehouse				Positive Stop (Not Analyzed)

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
83 *511700150-0083*	Gray window putty, Warehouse				Positive Stop (Not Analyzed)
84-Cove Base *511700150-0084*	Black/beige 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
84-Mastic *511700150-0084A*	Black/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
85-Cove Base *511700150-0085*	Black/beige 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
85-Mastic *511700150-0085A*	Black/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86-Cove Base *511700150-0086*	Black/beige 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86-Mastic *511700150-0086A*	Black/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
87-Floor Tile *511700150-0087*	Tan/black 9"x9" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
87-Mastic *511700150-0087A*	Tan/black 9"x9" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
88-Floor Tile *511700150-0088*	Tan/black 9"x9" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
88-Mastic *511700150-0088A*	Tan/black 9"x9" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
89-Floor Tile *511700150-0089*	Tan/black 9"x9" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
89-Mastic *511700150-0089A*	Tan/black 9"x9" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
90-Floor Tile *511700150-0090*	Tan/black 12"x12" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
90-Mastic *511700150-0090A*	Tan/black 12"x12" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
91-Floor Tile *511700150-0091*	Tan/black 12"x12" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
91-Mastic *511700150-0091A*	Tan/black 12"x12" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
92-Floor Tile *511700150-0092*	Tan/black 12"x12" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
92-Mastic *511700150-0092A*	Tan/black 12"x12" floor tile/mastic, Hallway - 1st floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
93 *511700150-0093*	Gray 12"x12" floor tile/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
94 *511700150-0094*	Gray 12"x12" floor tile/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
95 *511700150-0095*	Gray 12"x12" floor tile/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
96-Floor Tile *511700150-0096*	Tan/gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
96-Mastic *511700150-0096A*	Tan/gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
97-Floor Tile *511700150-0097*	Tan/gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
97-Mastic *511700150-0097A*	Tan/gray/yellow 12"x12" floor tile/mastic, Office area	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
Result includes a small amount of inseparable attached material					
98-Floor Tile *511700150-0098*	Tan/gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
98-Mastic *511700150-0098A*	Tan/gray/yellow 12"x12" floor tile/mastic, Office area	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
99-Sheet Flooring *511700150-0099*	Tan/gray vinyl flooring/12"x12" floor tile, Office - 2nd floor	Tan Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
99-Floor Tile *511700150-0099A*	Tan/gray vinyl flooring/12"x12" floor tile, Office - 2nd floor	Gray Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
99-Mastic *511700150-0099B*	Tan/gray vinyl flooring/12"x12" floor tile, Office - 2nd floor	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
100 *511700150-0100*	Tan/gray vinyl flooring/12"x12" floor tile, Office - 2nd floor				Positive Stop (Not Analyzed)
101 *511700150-0101*	Tan/gray vinyl flooring/12"x12" floor tile, Office - 2nd floor				Positive Stop (Not Analyzed)
102-Vinyl Sheet Flooring *511700150-0102*	Gray/yellow vinyl flooring, Warehouse restroom	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
102-Mastic *511700150-0102A*	Gray/yellow vinyl flooring, Warehouse restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
103-Vinyl Sheet Flooring *511700150-0103*	Gray/yellow vinyl flooring, Warehouse restroom	Gray Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
103-Mastic *511700150-0103A*	Gray/yellow vinyl flooring, Warehouse restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
104-Vinyl Sheet Flooring *511700150-0104*	Gray/yellow vinyl flooring, Warehouse restroom	Gray Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
104-Mastic *511700150-0104A*	Gray/yellow vinyl flooring, Warehouse restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
105 *511700150-0105*	Yellow carpet mastic, Office - 2nd floor	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
106 *511700150-0106*	Yellow carpet mastic, Office - 2nd floor	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
107 *511700150-0107*	Yellow carpet mastic, Office - 2nd floor	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
108 *511700150-0108*	Gray/black cap sheet, Roof - northside	Black Fibrous Homogeneous	15% Glass	5% Quartz 80% Non-fibrous (Other)	None Detected
109 *511700150-0109*	Black/gray cap sheet, Roof - center	Black Fibrous Homogeneous	15% Glass	5% Quartz 80% Non-fibrous (Other)	None Detected
110 *511700150-0110*	Black/gray cap sheet, Roof - southside	Black Fibrous Homogeneous	15% Glass	5% Quartz 80% Non-fibrous (Other)	None Detected
111 *511700150-0111*	Gray/black penetration mastic, Roof - northside	Black Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
112 *511700150-0112*	Gray/black penetration mastic, Roof - center	Black Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
113 *511700150-0113*	Gray/black penetration mastic, Roof - southside	Black Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
114 *511700150-0114*	White/gray stucco, Westside - exterior	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
115 *511700150-0115*	White/gray stucco, Northside - exterior	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
116 *511700150-0116*	White/gray stucco, Eastside - exterior	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
117-Joint Compound *511700150-0117*	White/brown drywall/joint compound, #101 - Office	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
117-Drywall *511700150-0117A*	White/brown drywall/joint compound, #101 - Office	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
118-Joint Compound *511700150-0118*	White/brown drywall/joint compound, #103 - Office				Positive Stop (Not Analyzed)
118-Drywall *511700150-0118A*	White/brown drywall/joint compound, #103 - Office	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
119-Joint Compound *511700150-0119*	White/brown drywall/joint compound, #108 - Office				Positive Stop (Not Analyzed)
119-Drywall *511700150-0119A*	White/brown drywall/joint compound, #108 - Office	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
120-Plaster *511700150-0120*	Gray/beige wall plaster/button board, #108 - Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
120-Button Board *511700150-0120A*	Gray/beige wall plaster/button board, #108 - Storage	Tan/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
121-Plaster *511700150-0121*	Gray/beige wall plaster/button board, #108 - Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
121-Button Board *511700150-0121A*	Gray/beige wall plaster/button board, #108 - Storage	Tan/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
122-Plaster *511700150-0122*	Gray/beige wall plaster/button board, #108 - Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
122-Button Board *511700150-0122A*	Gray/beige wall plaster/button board, #108 - Storage	White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
123 *511700150-0123*	Black tar paper, #108 - Storage	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
124 *511700150-0124*	Black tar paper, #108 - Storage	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
125 *511700150-0125*	Black tar paper, #108 - Storage	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
126-Cove Base *511700150-0126*	Gray/beige 4" cove base/mastic, #101 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
126-Mastic *511700150-0126A*	Gray/beige 4" cove base/mastic, #101 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
127-Cove Base *511700150-0127*	Gray/beige 4" cove base/mastic, #101 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
127-Mastic *511700150-0127A*	Gray/beige 4" cove base/mastic, #101 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
128-Cove Base *511700150-0128*	Gray/beige 4" cove base/mastic, #101 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
128-Mastic *511700150-0128A*	Gray/beige 4" cove base/mastic, #101 - Office	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
129-Cove Base *511700150-0129*	White/beige 4" cove base/mastic, #103 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
129-Mastic *511700150-0129A*	White/beige 4" cove base/mastic, #103 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
130-Cove Base *511700150-0130*	White/beige 4" cove base/mastic, #103 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
130-Mastic *511700150-0130A*	White/beige 4" cove base/mastic, #103 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
131-Cove Base *511700150-0131*	White/beige 4" cove base/mastic, #103 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
131-Mastic *511700150-0131A*	White/beige 4" cove base/mastic, #103 - Office	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132-Cove Base *511700150-0132*	Black/beige 4" cove base/mastic, #108 - Office	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132-Mastic *511700150-0132A*	Black/beige 4" cove base/mastic, #108 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
133-Cove Base *511700150-0133*	Black/beige 4" cove base/mastic, #108 - Office	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
133-Mastic *511700150-0133A*	Black/beige 4" cove base/mastic, #108 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
134-Cove Base *511700150-0134*	Black/beige 4" cove base/mastic, #108 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
134-Mastic *511700150-0134A*	Black/beige 4" cove base/mastic, #108 - Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
135 *511700150-0135*	Gray ceramic wall tile grout, #103 - Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
136 *511700150-0136*	Gray ceramic wall tile grout, #103 - Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
137 *511700150-0137*	Gray ceramic wall tile grout, #103 - Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
138 *511700150-0138*	Gray ceramic floor tile grout, #103 - Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
139 *511700150-0139*	Gray ceramic floor tile grout, #103 - Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
140 *511700150-0140*	Gray ceramic floor tile grout, #103 - Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
141 *511700150-0141*	Yellow carpet mastic, #101 - Office	White/Yellow Non-Fibrous Heterogeneous		98% Non-fibrous (Other)	2% Chrysotile
Result includes a small amount of inseparable attached material which was found to be positive.					
142 *511700150-0142*	Yellow carpet mastic, #101 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
143 *511700150-0143*	Yellow carpet mastic, #101 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
144-Floor Tile *511700150-0144*	Gray/yellow 12"x12" floor tile/mastic, #101 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
144-Mastic *511700150-0144A*	Gray/yellow 12"x12" floor tile/mastic, #101 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
145-Floor Tile *511700150-0145*	Gray/yellow 12"x12" floor tile/mastic, #101 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
145-Mastic *511700150-0145A*	Gray/yellow 12"x12" floor tile/mastic, #101 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
146-Floor Tile *511700150-0146*	Gray/yellow 12"x12" floor tile/mastic, #101 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
146-Mastic *511700150-0146A*	Gray/yellow 12"x12" floor tile/mastic, #101 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
147-Floor Tile *511700150-0147*	Gray/yellow 12"x12" floor tile/matic, #103 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
147-Mastic *511700150-0147A*	Gray/yellow 12"x12" floor tile/matic, #103 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
148-Floor Tile *511700150-0148*	Gray/yellow 12"x12" floor tile/matic, #103 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
148-Mastic *511700150-0148A*	Gray/yellow 12"x12" floor tile/matic, #103 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
149-Floor Tile *511700150-0149*	Gray/yellow 12"x12" floor tile/matic, #103 - Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
149-Mastic *511700150-0149A*	Gray/yellow 12"x12" floor tile/matic, #103 - Office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
150-Vinyl Sheet Flooring *511700150-0150*	Brown vinyl flooring, #108 - Restroom	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
150-Mastic *511700150-0150A*	Brown vinyl flooring, #108 - Restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
151-Vinyl Sheet Flooring *511700150-0151*	Brown vinyl flooring, #108 - Restroom	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
151-Mastic *511700150-0151A*	Brown vinyl flooring, #108 - Restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
152-Vinyl Sheet Flooring *511700150-0152*	Brown vinyl flooring, #108 - Restroom	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
152-Mastic *511700150-0152A*	Brown vinyl flooring, #108 - Restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
153 *511700150-0153*	White/beige 1'x1' ceiling tile, Office area	White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
154 *511700150-0154*	White/beige 1'x1' ceiling tile, Office area	White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
155 *511700150-0155*	White/beige 1'x1' ceiling tile, Office area	White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
156 *511700150-0156*	White/beige 2'x4' drop ceiling tile, Office area	White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
157 *511700150-0157*	White/beige 2'x4' drop ceiling tile, Office area	White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
158 *511700150-0158*	White/beige 2'x4' drop ceiling tile, Office area	White Fibrous Homogeneous	60% Cellulose 10% Glass	10% Perlite 20% Non-fibrous (Other)	None Detected
159-Joint Compound *511700150-0159* *Inseparable paint / coating layer included in analysis*	White/brown drywall/joint compound, Office area	White/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
159-Drywall *511700150-0159A*	White/brown drywall/joint compound, Office area	Brown/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
160-Joint Compound *511700150-0160* *Inseparable paint / coating layer included in analysis*	White/brown drywall/joint compound, Office area	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
160-Drywall *511700150-0160A*	White/brown drywall/joint compound, Office area	Brown/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
161-Joint Compound *511700150-0161* *Inseparable paint / coating layer included in analysis*	White/brown drywall/joint compound, Office area	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
161-Drywall *511700150-0161A*	White/brown drywall/joint compound, Office area	Brown/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
162-Joint Compound *511700150-0162*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
162-Drywall *511700150-0162A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
163-Joint Compound *511700150-0163*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
163-Drywall *511700150-0163A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
164-Cove Base *511700150-0164*	Black/beige 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
164-Mastic *511700150-0164A*	Black/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
165-Cove Base *511700150-0165*	Black/beige 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
165-Mastic *511700150-0165A*	Black/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
166-Cove Base *511700150-0166*	Black/beige 4" cove base/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
166-Mastic *511700150-0166A*	Black/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
167-Floor Tile *511700150-0167*	Gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
326 *511700150-0326*	Black/yellow 12"x12" floor tile/mastic, Lobby	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
327 *511700150-0327*	Black/yellow 12"x12" floor tile/mastic, Lobby	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
328-Floor Tile *511700150-0328*	Gray/yellow 12"x12" floor tile/mastic, Lobby	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
328-Mastic *511700150-0328A*	Gray/yellow 12"x12" floor tile/mastic, Lobby	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
329-Floor Tile *511700150-0329*	Gray/yellow 12"x12" floor tile/mastic, Lobby	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
329-Mastic *511700150-0329A*	Gray/yellow 12"x12" floor tile/mastic, Lobby	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
330-Floor Tile *511700150-0330*	Gray/yellow 12"x12" floor tile/mastic, Lobby	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
330-Mastic *511700150-0330A*	Gray/yellow 12"x12" floor tile/mastic, Lobby	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
331 *511700150-0331*	Red/yellow 12"x12" floor tile/mastic, Lobby	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332-Floor Tile *511700150-0332*	Red/yellow 12"x12" floor tile/mastic, Lobby	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332-Mastic *511700150-0332A*	Red/yellow 12"x12" floor tile/mastic, Lobby	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
333 *511700150-0333*	Red/yellow 12"x12" floor tile/mastic, Lobby	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
334-Floor Tile *511700150-0334*	Brown/yellow 12"x12" floor tile/mastic, Hallway	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
334-Mastic *511700150-0334A*	Brown/yellow 12"x12" floor tile/mastic, Hallway	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
335-Floor Tile *511700150-0335*	Brown/yellow 12"x12" floor tile/mastic, Hallway	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
335-Mastic *511700150-0335A*	Brown/yellow 12"x12" floor tile/mastic, Hallway	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
336-Floor Tile *511700150-0336*	Brown/yellow 12"x12" floor tile/mastic, Hallway	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
336-Mastic *511700150-0336A*	Brown/yellow 12"x12" floor tile/mastic, Hallway	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
337-Floor Tile *511700150-0337*	Black/yellow 12"x12" floor tile/mastic, Restroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
337-Mastic *511700150-0337A* *Result includes a small amount of inseparable attached material*	Black/yellow 12"x12" floor tile/mastic, Restroom	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
338-Floor Tile *511700150-0338*	Black/yellow 12"x12" floor tile/mastic, Restroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
338-Mastic *511700150-0338A*	Black/yellow 12"x12" floor tile/mastic, Restroom	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
339-Floor Tile *511700150-0339*	Black/yellow 12"x12" floor tile/mastic, Restroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
339-Mastic *511700150-0339A*	Black/yellow 12"x12" floor tile/mastic, Restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
340 *511700150-0340*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
341 *511700150-0341*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
342 *511700150-0342*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
167-Mastic *511700150-0167A*	Gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
168-Floor Tile *511700150-0168*	Gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
168-Mastic *511700150-0168A*	Gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
169-Floor Tile *511700150-0169*	Gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
169-Mastic *511700150-0169A*	Gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
170 *511700150-0170*	Gray/yellow vinyl flooring, Office area	Gray/Yellow Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
171-Vinyl Sheet Flooring *511700150-0171*	Gray/yellow vinyl flooring, Office area	Gray/Yellow Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
171-Mastic *511700150-0171A*	Gray/yellow vinyl flooring, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
172 *511700150-0172*	Gray/yellow vinyl flooring, Office area	Gray/Yellow Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
173 *511700150-0173*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174 *511700150-0174*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
175 *511700150-0175*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
176 *511700150-0176* *Inseparable paint / coating layer included in analysis*	White/brown 1'x1' ceiling tile, Office area	Brown/White Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
177 *511700150-0177*	White/brown 1'x1' ceiling tile, Office area	Brown/White Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
178 *511700150-0178*	White/brown 1'x1' ceiling tile, Office area	Brown Non-Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
179 *511700150-0179* *Result includes a small amount of inseparable attached material*	Brown ceiling tile mastic, Office area	Brown Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
180 *511700150-0180* *Inseparable paint / coating layer included in analysis*	Brown ceiling tile mastic, Office area	Brown Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
181 *511700150-0181* *Inseparable paint / coating layer included in analysis*	Brown ceiling tile mastic, Office area	Brown Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
182 *511700150-0182*	White/brown 2'x4' drop ceiling tile, Warehouse area	Tan Fibrous Homogeneous	50% Cellulose 10% Glass	20% Perlite 20% Non-fibrous (Other)	None Detected
183 *511700150-0183*	White/brown 2'x4' drop ceiling tile, Warehouse area	Tan Non-Fibrous Homogeneous	50% Cellulose 10% Glass	20% Perlite 20% Non-fibrous (Other)	None Detected
184 *511700150-0184*	White/brown 2'x4' drop ceiling tile, Warehouse area	Tan Fibrous Homogeneous	50% Cellulose 10% Glass	20% Perlite 20% Non-fibrous (Other)	None Detected
185 *511700150-0185*	White/brown 1'x1' ceiling tile, Warehouse storage	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
186 *511700150-0186*	White/brown 1'x1' ceiling tile, Warehouse storage	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
187 *511700150-0187*	White/brown 1'x1' ceiling tile, Warehouse storage	Tan Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
188-Joint Compound *511700150-0188*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
188-Drywall *511700150-0188A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
189-Joint Compound *511700150-0189*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
189-Drywall *511700150-0189A*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
190-Joint Compound *511700150-0190*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
190-Drywall *511700150-0190A*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
191-Joint Compound *511700150-0191*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
191-Drywall *511700150-0191A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
192-Joint Compound *511700150-0192*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
192-Drywall *511700150-0192A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
193 *511700150-0193*	White/brown drywall/joint compound, Warehouse office	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
No joint compound present; sample contains only drywall.					
194 *511700150-0194*	White/brown drywall/joint compound, Warehouse office	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis. *No joint compound present; sample contains only drywall.*					
195 *511700150-0195*	White/brown drywall/joint compound, Warehouse office	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis. *No joint compound present; sample contains only drywall.*					
196-Joint Compound *511700150-0196*	White/brown drywall/joint compound, Warehouse storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
196-Drywall *511700150-0196A*	White/brown drywall/joint compound, Warehouse storage	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
197-Joint Compound *511700150-0197*	White/brown drywall/joint compound, Warehouse storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
197-Drywall *511700150-0197A*	White/brown drywall/joint compound, Warehouse storage	White Non-Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
198-Joint Compound *511700150-0198*	White/brown drywall/joint compound, Warehouse storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
198-Drywall *511700150-0198A*	White/brown drywall/joint compound, Warehouse storage	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
199-Joint Compound *511700150-0199* *Inseparable paint / coating layer included in analysis*	White/brown drywall/joint compound, Warehouse storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
199-Drywall *511700150-0199A*	White/brown drywall/joint compound, Warehouse storage	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
200-Joint Compound *511700150-0200* *Inseparable paint / coating layer included in analysis*	White/brown drywall/joint compound, Warehouse storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
200-Drywall *511700150-0200A*	White/brown drywall/joint compound, Warehouse storage	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
201-Cove Base *511700150-0201*	Gray/beige 4" cove base/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
201-Mastic *511700150-0201A*	Gray/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
201-Mastic 2 *511700150-0201B*	Gray/beige 4" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
202-Cove Base *511700150-0202*	Gray/beige 4" cove base/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
202-Mastic *511700150-0202A*	Gray/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
202-Mastic 2 *511700150-0202B*	Gray/beige 4" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
203-Cove Base *511700150-0203*	Gray/beige 4" cove base/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
203-Mastic *511700150-0203A*	Gray/beige 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
203-Mastic 2 *511700150-0203B*	Gray/beige 4" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
204-Cove Base *511700150-0204*	Black/brown 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
204-Mastic *511700150-0204A*	Black/brown 4" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
205-Cove Base *511700150-0205*	Black/brown 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
205-Mastic *511700150-0205A*	Black/brown 4" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
206-Cove Base *511700150-0206*	Black/brown 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
206-Mastic *511700150-0206A*	Black/brown 4" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
207-Cove Base *511700150-0207*	Black/brown 6" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
207-Mastic *511700150-0207A*	Black/brown 6" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
208-Cove Base *511700150-0208*	Black/brown 6" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
208-Mastic *511700150-0208A*	Black/brown 6" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
209-Cove Base *511700150-0209*	Black/brown 6" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
209-Mastic *511700150-0209A*	Black/brown 6" cove base/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
210-Cove Base *511700150-0210*	Brown/beige 4" cove base/mastic, Warehouse office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
210-Mastic *511700150-0210A*	Brown/beige 4" cove base/mastic, Warehouse office	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
211-Cove Base *511700150-0211*	Brown/beige 4" cove base/mastic, Warehouse office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
211-Mastic *511700150-0211A*	Brown/beige 4" cove base/mastic, Warehouse office	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
212-Cove Base *511700150-0212*	Brown/beige 4" cove base/mastic, Warehouse office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
212-Mastic *511700150-0212A*	Brown/beige 4" cove base/mastic, Warehouse office	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
213 *511700150-0213*	White/yellow ceramic wall tile grout, Restroom	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
214 *511700150-0214*	White/yellow ceramic wall tile grout, Restroom	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
215 *511700150-0215*	White/yellow ceramic wall tile grout, Restroom	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
216 *511700150-0216*	Gray ceramic floor tile grout, Restroom	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
217 *511700150-0217*	Gray ceramic floor tile grout, Restroom	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218 *511700150-0218*	Gray ceramic floor tile grout, Restroom	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
219 *511700150-0219*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
220 *511700150-0220*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
221 *511700150-0221*	Yellow carpet mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
222-Floor Tile *511700150-0222*	Green/black 9"x9" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
222-Mastic *511700150-0222A*	Green/black 9"x9" floor tile/mastic, Office area	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
223-Floor Tile *511700150-0223*	Green/black 9"x9" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
223-Mastic *511700150-0223A*	Green/black 9"x9" floor tile/mastic, Office area	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
224-Floor Tile *511700150-0224*	Green/black 9"x9" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
224-Mastic *511700150-0224A*	Green/black 9"x9" floor tile/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
225-Floor Tile *511700150-0225*	Tan/black 9"x9" floor tile/mastic, Office area	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
225-Mastic *511700150-0225A*	Tan/black 9"x9" floor tile/mastic, Office area	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
226-Floor Tile *511700150-0226*	Tan/black 9"x9" floor tile/mastic, Office area	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
226-Mastic *511700150-0226A*	Tan/black 9"x9" floor tile/mastic, Office area	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
227-Floor Tile *511700150-0227*	Tan/black 9"x9" floor tile/mastic, Office area	Tan/Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
227-Mastic *511700150-0227A*	Tan/black 9"x9" floor tile/mastic, Office area	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
228-Floor Tile *511700150-0228*	Gray/black 9"x9" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
228-Mastic *511700150-0228A*	Gray/black 9"x9" floor tile/mastic, Office area	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
229-Floor Tile *511700150-0229*	Gray/black 9"x9" floor tile/mastic, Office area				Positive Stop (Not Analyzed)
229-Mastic *511700150-0229A*	Gray/black 9"x9" floor tile/mastic, Office area				Positive Stop (Not Analyzed)
230-Floor Tile *511700150-0230*	Gray/black 9"x9" floor tile/mastic, Office area				Positive Stop (Not Analyzed)
230-Mastic *511700150-0230A*	Gray/black 9"x9" floor tile/mastic, Office area				Positive Stop (Not Analyzed)
231-Vinyl Sheet Flooring *511700150-0231*	White/yellow vinyl flooring, Bathroom	White/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
231-Mastic *511700150-0231A*	White/yellow vinyl flooring, Bathroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
232-Vinyl Sheet Flooring *511700150-0232*	White/yellow vinyl flooring, Bathroom	White/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
232-Mastic *511700150-0232A*	White/yellow vinyl flooring, Bathroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
233-Vinyl Sheet Flooring *511700150-0233*	White/yellow vinyl flooring, Bathroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
233-Mastic *511700150-0233A*	White/yellow vinyl flooring, Bathroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
234-Floor Tile *511700150-0234*	Dark gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
234-Mastic *511700150-0234A*	Dark gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
235-Floor Tile *511700150-0235*	Dark gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
235-Mastic *511700150-0235A*	Dark gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
236-Floor Tile *511700150-0236*	Dark gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
236-Mastic *511700150-0236A*	Dark gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
237-Floor Tile *511700150-0237*	Light gray/yellow 12"x12" floor tile/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
237-Mastic *511700150-0237A*	Light gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
238-Floor Tile *511700150-0238*	Light gray/yellow 12"x12" floor tile/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
238-Mastic *511700150-0238A*	Light gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
239-Floor Tile *511700150-0239*	Light gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
239-Mastic *511700150-0239A*	Light gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
240-Floor Tile *511700150-0240*	Brown/black 12"x12" floor tile/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
240-Mastic *511700150-0240A*	Brown/black 12"x12" floor tile/mastic, Office area	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
241 *511700150-0241* *No mastic present on sample.*	Brown/black 12"x12" floor tile/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
242-Floor Tile *511700150-0242*	Brown/black 12"x12" floor tile/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
242-Mastic *511700150-0242A*	Brown/black 12"x12" floor tile/mastic, Office area				Positive Stop (Not Analyzed)
243 *511700150-0243* *No mastic present on sample.*	Tan/black 12"x12" floor tile/mastic, Office area	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
244-Floor Tile *511700150-0244*	Tan/black 12"x12" floor tile/mastic, Office area	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
244-Mastic *511700150-0244A*	Tan/black 12"x12" floor tile/mastic, Office area	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
245 *511700150-0245* *No mastic present on sample.*	Tan/black 12"x12" floor tile/mastic, Office area	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
246-Floor Tile *511700150-0246*	Beige/yellow 12"x12" floor tile/mastic, Office area	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
246-Mastic *511700150-0246A*	Beige/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
247-Floor Tile *511700150-0247*	Beige/yellow 12"x12" floor tile/mastic, Office area	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
247-Mastic *511700150-0247A*	Beige/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
248-Floor Tile *511700150-0248*	Beige/yellow 12"x12" floor tile/mastic, Office area	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
248-Mastic *511700150-0248A*	Beige/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
249-Floor Tile *511700150-0249*	Gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
249-Mastic *511700150-0249A*	Gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
250-Floor Tile *511700150-0250*	Gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
250-Mastic *511700150-0250A*	Gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
251-Floor Tile *511700150-0251*	Gray/yellow 12"x12" floor tile/mastic, Office area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
251-Mastic *511700150-0251A*	Gray/yellow 12"x12" floor tile/mastic, Office area	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
252-Ceiling Tile *511700150-0252*	White/brown 1'x1' ceiling tile/mastic, Office area	Brown/White Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
252-Mastic *511700150-0252A*	White/brown 1'x1' ceiling tile/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
253-Ceiling Tile *511700150-0253*	White/brown 1'x1' ceiling tile/mastic, Office area	Brown/White Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
253-Mastic *511700150-0253A*	White/brown 1'x1' ceiling tile/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
254-Ceiling Tile *511700150-0254*	White/brown 1'x1' ceiling tile/mastic, Office area	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
254-Mastic *511700150-0254A*	White/brown 1'x1' ceiling tile/mastic, Office area	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
255-Joint Compound *511700150-0255*	White/brown drywall/joint compound, Office area	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
255-Drywall *511700150-0255A*	White/brown drywall/joint compound, Office area	Tan/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
256-Joint Compound *511700150-0256*	White/brown drywall/joint compound, Office area	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
256-Drywall *511700150-0256A*	White/brown drywall/joint compound, Office area	Tan/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
257-Joint Compound *511700150-0257*	White/brown drywall/joint compound, Office area	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
257-Drywall *511700150-0257A*	White/brown drywall/joint compound, Office area	Tan/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
258-Joint Compound *511700150-0258*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
258-Drywall *511700150-0258A*	White/brown drywall/joint compound, Office area	Tan/White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
259-Joint Compound *511700150-0259*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
259-Drywall *511700150-0259A*	White/brown drywall/joint compound, Office area	Tan/White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
260-Cove Base *511700150-0260*	Brown/beige 4" cove base/mastic, Office - 1st floor	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
260-Mastic *511700150-0260A*	Brown/beige 4" cove base/mastic, Office - 1st floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
261-Cove Base *511700150-0261*	Brown/beige 4" cove base/mastic, Office - 1st floor	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
261-Mastic *511700150-0261A*	Brown/beige 4" cove base/mastic, Office - 1st floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
262-Cove Base *511700150-0262*	Brown/beige 4" cove base/mastic, Office - 1st floor	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
262-Mastic *511700150-0262A*	Brown/beige 4" cove base/mastic, Office - 1st floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
263-Cove Base *511700150-0263*	Black/beige 4" cove base/mastic, Office - 2nd floor	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
263-Mastic *511700150-0263A*	Black/beige 4" cove base/mastic, Office - 2nd floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
264-Cove Base *511700150-0264*	Black/beige 4" cove base/mastic, Office - 2nd floor	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
264-Mastic *511700150-0264A*	Black/beige 4" cove base/mastic, Office - 2nd floor	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
265-Cove Base *511700150-0265*	Black/beige 4" cove base/mastic, Office - 2nd floor	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
265-Mastic *511700150-0265A*	Black/beige 4" cove base/mastic, Office - 2nd floor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
266-Cove Base *511700150-0266*	Brown/yellow 4" cove base/mastic, Warehouse office	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
266-Mastic *511700150-0266A*	Brown/yellow 4" cove base/mastic, Warehouse office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
267-Cove Base *511700150-0267*	Brown/yellow 4" cove base/mastic, Warehouse office	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
267-Mastic *511700150-0267A*	Brown/yellow 4" cove base/mastic, Warehouse office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
268-Cove Base *511700150-0268*	Brown/yellow 4" cove base/mastic, Warehouse office	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
268-Mastic *511700150-0268A*	Brown/yellow 4" cove base/mastic, Warehouse office	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
269-Cove Base *511700150-0269*	White/brown 4" cove base/mastic, Wharehouse office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
269-Mastic *511700150-0269A*	White/brown 4" cove base/mastic, Wharehouse office	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
270-Cove Base *511700150-0270*	White/brown 4" cove base/mastic, Wharehouse office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
270-Mastic *511700150-0270A*	White/brown 4" cove base/mastic, Wharehouse office	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
271-Cove Base *511700150-0271*	White/brown 4" cove base/mastic, Wharehouse office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
271-Mastic *511700150-0271A*	White/brown 4" cove base/mastic, Wharehouse office	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
272-Cove Base *511700150-0272*	Gray/beige 6" cove base/mastic, Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
272-Mastic *511700150-0272A*	Gray/beige 6" cove base/mastic, Restroom	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
273-Cove Base *511700150-0273*	Gray/beige 6" cove base/mastic, Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
273-Mastic *511700150-0273A*	Gray/beige 6" cove base/mastic, Restroom	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
274-Cove Base *511700150-0274*	Gray/beige 6" cove base/mastic, Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
274-Mastic *511700150-0274A*	Gray/beige 6" cove base/mastic, Restroom	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
275-Cove Base *511700150-0275*	Tan/beige 6" cove base/mastic, Restroom	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
275-Mastic *511700150-0275A*	Tan/beige 6" cove base/mastic, Restroom	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
276-Cove Base *511700150-0276*	Tan/beige 6" cove base/mastic, Restroom	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
276-Mastic *511700150-0276A*	Tan/beige 6" cove base/mastic, Restroom	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
277-Cove Base *511700150-0277*	Tan/beige 6" cove base/mastic, Restroom	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
277-Mastic *511700150-0277A*	Tan/beige 6" cove base/mastic, Restroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
278 *511700150-0278*	Gray ceramic wall tile grout, Men's restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
279 *511700150-0279*	Gray ceramic wall tile grout, Men's restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
280 *511700150-0280*	Gray ceramic wall tile grout, Men's restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
281 *511700150-0281*	Gray ceramic floor tile grout, Men's restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
282 *511700150-0282*	Gray ceramic floor tile grout, Men's restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
283 *511700150-0283*	Gray ceramic floor tile grout, Men's restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
284 *511700150-0284*	Yellow carpet mastic, Office area	Black/Yellow Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
285 *511700150-0285*	Yellow carpet mastic, Office area				Positive Stop (Not Analyzed)
286 *511700150-0286*	Yellow carpet mastic, Office area				Positive Stop (Not Analyzed)
287-Floor Tile *511700150-0287*	Green/black 9"x9" floor tile/mastic, Warehouse office	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
287-Mastic *511700150-0287A*	Green/black 9"x9" floor tile/mastic, Warehouse office	Black/Yellow Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
288-Floor Tile *511700150-0288*	Green/black 9"x9" floor tile/mastic, Warehouse office	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
288-Mastic *511700150-0288A*	Green/black 9"x9" floor tile/mastic, Warehouse office				Positive Stop (Not Analyzed)
289-Floor Tile *511700150-0289*	Green/black 9"x9" floor tile/mastic, Warehouse office	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
289-Mastic *511700150-0289A*	Green/black 9"x9" floor tile/mastic, Warehouse office				Positive Stop (Not Analyzed)
290-Floor Tile *511700150-0290*	Beige/brown 12"x12" floor tile/mastic, Break room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
290-Mastic *511700150-0290A*	Beige/brown 12"x12" floor tile/mastic, Break room	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
291-Floor Tile *511700150-0291*	Beige/brown 12"x12" floor tile/mastic, Break room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
291-Mastic *511700150-0291A*	Beige/brown 12"x12" floor tile/mastic, Break room	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
292-Floor Tile *511700150-0292*	Beige/brown 12"x12" floor tile/mastic, Break room	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
292-Mastic *511700150-0292A*	Beige/brown 12"x12" floor tile/mastic, Break room	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
293-Vinyl Sheet Flooring *511700150-0293*	White/tan/gray vinyl flooring, Warehouse - 2nd floor	Gray/White Fibrous Heterogeneous		75% Non-fibrous (Other)	25% Chrysotile
293-Mastic *511700150-0293A*	White/tan/gray vinyl flooring, Warehouse - 2nd floor	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
294-Vinyl Sheet Flooring *511700150-0294*	White/tan/gray vinyl flooring, Warehouse - 2nd floor				Positive Stop (Not Analyzed)

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
294-Mastic *511700150-0294A*	White/tan/gray vinyl flooring, Warehouse - 2nd floor	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
295-Sheet Flooring *511700150-0295*	White/tan/gray vinyl flooring, Warehouse - 2nd floor				Positive Stop (Not Analyzed)
295-Mastic *511700150-0295A*	White/tan/gray vinyl flooring, Warehouse - 2nd floor	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
296-Vinyl Sheet Flooring *511700150-0296*	Gray/beige vinyl flooring, Storage	Gray Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
296-Mastic *511700150-0296A*	Gray/beige vinyl flooring, Storage	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
297-Vinyl Sheet Flooring *511700150-0297*	Gray/beige vinyl flooring, Storage	Gray Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
297-Mastic *511700150-0297A*	Gray/beige vinyl flooring, Storage	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
298-Vinyl Sheet Flooring *511700150-0298*	Gray/beige vinyl flooring, Storage	Gray Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
298-Mastic *511700150-0298A*	Gray/beige vinyl flooring, Storage	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
299-Vinyl Sheet Flooring *511700150-0299*	Tan/beige vinyl flooring, Restroom	White Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
299-Mastic *511700150-0299A*	Tan/beige vinyl flooring, Restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
300-Vinyl Sheet Flooring *511700150-0300*	Tan/beige vinyl flooring, Restroom	White Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
300-Mastic *511700150-0300A*	Tan/beige vinyl flooring, Restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
301-Vinyl Sheet Flooring *511700150-0301*	Tan/beige vinyl flooring, Restroom	White Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
301-Mastic *511700150-0301A*	Tan/beige vinyl flooring, Restroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
302 *511700150-0302*	Black tar paper, Warehouse	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
303 *511700150-0303*	Black tar paper, Warehouse	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
304 *511700150-0304*	Black tar paper, Warehouse	Black Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
305 *511700150-0305*	Red stucco, Exterior	Red Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
306 *511700150-0306*	Red stucco, Exterior	Red Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
307 *511700150-0307*	Red stucco, Exterior	Red Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
308 *511700150-0308*	White/brown 1'x1' ceiling tile, Office area	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
309 *511700150-0309*	White/brown 1'x1' ceiling tile, Office area	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
310 *511700150-0310*	White/brown 1'x1' ceiling tile, Office area	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
311 *511700150-0311*	White/beige 2'x4' drop ceiling tile, Office area	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
312 *511700150-0312*	White/beige 2'x4' drop ceiling tile, Office area	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
313 *511700150-0313*	White/beige 2'x4' drop ceiling tile, Office area	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	35% Non-fibrous (Other)	None Detected
314-Joint Compound *511700150-0314*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
314-Drywall *511700150-0314A*	White/brown drywall/joint compound, Office area	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
315-Joint Compound *511700150-0315*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
315-Drywall *511700150-0315A*	White/brown drywall/joint compound, Office area	Gray Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
316-Joint Compound *511700150-0316*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
316-Drywall *511700150-0316A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous		50% Gypsum 50% Non-fibrous (Other)	None Detected
317-Joint Compound *511700150-0317*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511700150
Customer ID: SCSE34
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
317-Drywall *511700150-0317A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
318-Joint Compound *511700150-0318*	White/brown drywall/joint compound, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
318-Drywall *511700150-0318A*	White/brown drywall/joint compound, Office area	White Fibrous Homogeneous	10% Cellulose	50% Gypsum 40% Non-fibrous (Other)	None Detected
319-Cove Base *511700150-0319*	Black/white 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
319-Mastic *511700150-0319A*	Black/white 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
320-Cove Base *511700150-0320*	Black/white 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
320-Mastic *511700150-0320A*	Black/white 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
321-Cove Base *511700150-0321*	Black/white 4" cove base/mastic, Office area	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
321-Mastic *511700150-0321A*	Black/white 4" cove base/mastic, Office area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322-Cove Base *511700150-0322*	Black/beige 6" cove base/mastic, Restroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322-Mastic *511700150-0322A*	Black/beige 6" cove base/mastic, Restroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
323-Cove Base *511700150-0323*	Black/beige 6" cove base/mastic, Restroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
323-Mastic *511700150-0323A*	Black/beige 6" cove base/mastic, Restroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
324-Cove Base *511700150-0324*	Black/beige 6" cove base/mastic, Restroom	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
324-Mastic *511700150-0324A*	Black/beige 6" cove base/mastic, Restroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
325 *511700150-0325*	Black/yellow 12"x12" floor tile/mastic, Lobby	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2017 13:50:22

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order:	511700150
Customer ID:	SCSE34
Customer PO:	
Project ID:	

Analyst(s)

Lauren Kerber (213)
Rudy Baum (146)
Rebecca Ferrell (181)

Lauren Kerber, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Seattle, WA NVLAP Lab Code 200613

Initial report from: 01/24/2017 13:50:22

OrderID: 511700150

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*):

#511700150

LATESTING
520 MISSION STREET
SOUTH PASADENA, CA 91030
PHONE: (800)-303-0047
FAX: (323)-254-9962

Company: SCS ENGINEERS	**EMSL-Bill to:** [X] Same [ ] Different If Bill to is Different note instructions in Comments**
Street: 3900 KILROY AIRPORT WAY, SUITE 100	*Third Party Billing requires written authorization from third party*
City: LONG BEACH **State/Province:** CA	**Zip/Postal Code:** 90806 **Country:** USA
Report To (Name): BOB PILZER	**Telephone #:** (562) 426-9544
Email Address: BPILZER@SCSENGINEERS.COM	**Fax #:** (562) 427-0805 **Purchase Order:** N/A
Project Name/Number: 01216368.00, TASK 2/ DOWNEY INDUSTRIAL	**Please Provide Results:** [ ] Fax [X] Email [ ] Mail
U.S. State Samples Taken: CA	**Connecticut Samples:** [ ] Commercial [ ] Residential

Turnaround Time (TAT) Options* – Please Check

[ ] 3 Hour [ ] 6 Hour [ ] 24 Hour [ ] 48 Hour [ ] 72 Hour [ ] 96 Hour [X] 1 Week [ ] 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air [ ] Check if samples are from NY
- [ ] NIOSH 7400
- [ ] w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- [X] PLM EPA 600/R-93/116 (<1%)
- [ ] PLM EPA NOB (<1%)

Point Count
- [ ] 400 (<0.25%) [ ] 1000 (<0.1%)

Point Count w/Gravimetric
- [ ] 400 (<0.25%) [ ] 1000 (<0.1%)
- [ ] NYS 198.1 (friable in NY)
- [ ] NYS 198.6 NOB (non-friable-NY)
- [ ] NIOSH 9002 (<1%)

TEM – Air [ ] **4-4.5hr TAT (AHERA only)**
- [ ] AHERA 40 CFR, Part 763
- [ ] NIOSH 7402
- [ ] EPA Level II
- [ ] ISO 10312

TEM - Bulk
- [ ] TEM EPA NOB
- [ ] NYS NOB 198.4 (non-friable-NY)
- [ ] Chatfield SOP
- [ ] TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm [ ] Waste [ ] Drinking
- All Fiber Sizes [ ] Waste [ ] Drinking

TEM- Dust
- [ ] Microvac - ASTM D 5755
- [ ] Wipe - ASTM D6480
- [ ] Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- [ ] PLM CARB 435 - A (0.25% sensitivity)
- [ ] PLM CARB 435 - B (0.1% sensitivity)
- [ ] TEM CARB 435 - B (0.1% sensitivity)
- [ ] TEM CARB 435 - C (0.01% sensitivity)
- [ ] TEM Qual. via Filtration Technique
- [ ] TEM Qual. via Drop-Mount Technique

Other:
- [ ]

[X] **Check For Positive Stop – Clearly Identify Homogenous Group** **Filter Pore Size (Air Samples):** [ ] 0.8µm [ ] 0.45µm

Samplers Name: BOB PILZER **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
01	SEE ATTACHED PLM BULK SAMPLE SUMMARY LOGS	N/A	1/10/17-1/11/17
↓	↓	↓	↓
342			

Client Sample # (s): 01 TO 342 **Total # of Samples:** 342

Relinquished (Client): BPILZER [signature] **Date:** 1/17/17 **Time:** 10:50

Received (Lab): [signature] **Date:** 1/17/17 **Time:** 10:55am

Comments/Special Instructions:

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	01	BUILDING 1A 9300 HALL ROAD	INTERIOR	OFFICE AREA	2'X4' DROP CEILING TILE	GOOD	WHITE/ BEIGE	OFFICE (WITH FISURES)
2	02							
3	03							
4	04							OFFICE (WITH PINHOLES)
5	05							
6	06							
7	07			STORAGE AREA				STORAGE (WITH PINHOLES)
8	08							
9	09							
10	10			OFFICE AREA	DRYWALL/ JOINT COMPOUND		WHITE/ BROWN	OFFICE - 1ST FLOOR
11	11							
12	12							

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

PAGE 2 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	13	BUILDING 1A 9300 HALL ROAD	INTERIOR	OFFICE AREA	DRYWALL/ JOINT COMPOUND	GOOD	WHITE/ BROWN	OFFICE-2ND FLOOR
2	14							
3	15							
4	16							
5	17			WAREHOUSE AREA				WAREHOUSE
6	18							
7	19							
8	20							
9	21							
10	22			OFFICE AREA	4" CURVE BASE/ MASTIC		BLACK/ BEIGE	OFFICE-1ST FLOOR
11	23							
12	24							

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	25	BUILDING 1A 9300 HALL ROAD	INTERIOR	OFFICE AREA	4" COVE BASE/ MASTIC	GOOD	GRAY/ BEIGE	OFFICE-2ND FLOOR
2	26							
3	27							
4	28			BREAK ROOM	6" COVE BASE/ MASTIC		BLACK/ BEIGE	BREAK ROOM
5	29							
6	30							
7	31			BATHROOM	CERAMIC WALL TILE GROUT		WHITE	BATHROOM
8	32							
9	33							
10	34				CERAMIC FLOOR TILE GROUT		GRAY	
11	35							
12	36							

INSPECTOR(S): BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	37	BUILDING 1A 9300 RAILROAD	INTERIOR	OFFICE AREA	CARPET MASTIC	GOOD	YELLOW	OFFICE
2	38							
3	39							
4	40			BREAK ROOM	12"x12" FLOOR TILE/MASTIC		BROWN/ GRAY	BREAK ROOM
5	41							
6	42							
7	43			STORAGE			GRAY/ BEIGE	STORAGE
8	44							
9	45							
10	46			WAREHOUSE OFFICE			WHITE/ YELLOW	WAREHOUSE OFFICE
11	47							
12	48							

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	49	BUILDING 1A 9300 HALL ROAD	INTERIOR	WAREHOUSE BREAK ROOM	12"X12" FLOOR TILE/MASTIC	GOOD	BLUE/ YELLOW	WAREHOUSE BREAK ROOM
2	50							
3	51							
4	52			WAREHOUSE BATHROOM			PINK/ YELLOW	WAREHOUSE BATHROOM
5	53							
6	54							
7	55			WAREHOUSE BUILDING			TAN/ YELLOW	WAREHOUSE BUILDING
8	56							
9	57							
10	58	BUILDING 1B 9301 STEWART & GRAY RD.	INTERIOR	OFFICE AREA	TEXTURED CEILING PLASTER	GOOD	WHITE	OFFICE-1ST FLOOR
11	59							
12	60							

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	61	BUILDING 1B 9301 STEWART & GRAY	INTERIOR	OFFICE AREA	TEXTURED PLASTER CEILING	GOOD	WHITE	OFFICE - 2ND FLOOR
2	62							
3	63							
4	64							
5	65			OFFICE AREA	1'X1' CEILING TILE		WHITE/ GRAY	OFFICE - SMALL PINHOLES
6	66							
7	67							
8	68						WHITE/ BROWN	OFFICE - LARGE PINHOLES
9	69							
10	70							
11	71						WHITE/ BROWN	OFFICE - TEXTURED
12	72							

INSPECTOR(S) : BOB PILZER DATE: 1/10/17 - 1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM
BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	73	BUILDING 1B 9301 STEWART + GIBBY	INTERIOR	OFFICE AREA	1'X1' CEILING TILE	GOOD	WHITE/ BROWN	OFFICE-TEXTURED
2	74				DRYWALL/ JOINT COMPOUND			OFFICE-1ST FLOOR
3	75							
4	76							
5	77							OFFICE-2ND FLOOR
6	78							
7	79							
8	80							
9	81			WAREHOUSE AREA	WINDOW PUTTY		GRAY	WAREHOUSE
10	82							
11	83				4" COVE BASE/ MASTIC		BLACK/ BEIGE	
12	84			OFFICE AREA				OFFICE AREA

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM
BULK SAMPLE SUMMARY LOG

PAGE 8 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	85	9301 STEWART & GRAY	INTERIOR	OFFICE AREA	4" COVEBASE/ MASTIC	GOOD	BLACK/ BEIGE	OFFICE AREA
2	86							
3	87			HALLWAY	9"x9" FLOOR TILE/MASTIC		TAN/ BLACK	HALLWAY 1ST FLOOR
4	88							
5	89							
6	90				12"x12" FLOOR TILE/MASTIC			
7	91							
8	92							
9	93			OFFICE AREA	12"x12" FLOOR TILE/MASTIC		GRAY	OFFICE AREA
10	94							
11	95							
12	96						TAN/ GRAY/ YELLOW	

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	97	BUILDING 1B 9301 STEWART & GRAY	INTERIOR	OFFICE AREA	12"x12" FLOOR TILE/MASTIC	GOOD	TAN/ GRAY/ YELLOW	OFFICE AREA
2	98							
3	99			OFFICE AREA	VINYL FLOORING/ 12"x12" FLOOR TILE		TAN/ GRAY	OFFICE - 2ND FLOOR
4	100							
5	101							
6	102			WAREHOUSE RESTROOM	VINYL FLOORING		GRAY/ YELLOW	WAREHOUSE - RESTROOM
7	103							
8	104							
9	105			OFFICE AREA	CARPET MASTIC		YELLOW	OFFICE - 2ND FLOOR
10	106							
11	107							
12	108	BUILDING 3 9933/9963 STEWART & GRAY	EXTERIOR	ROOF	CAP SHEET		GRAY/ BLACK	ROOF - NORTH SIDE

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17 - 1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

PAGE 10 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	109	BUILDING 3 9333/9363 STEWART GRAY	EXTERIOR	ROOF	CAR SHEET	GOOD	BLACK/ GRAY	ROOF-CENTER
2	110							ROOF-SOUTHSIDE
3	111				PENETRATION MASTIC		GRAY/ BLACK	ROOF-NORTHSIDE
4	112							ROOF-CENTER
5	113							ROOF-SOUTHSIDE
6	114			EXTERIOR WALL	STUCCO		WHITE/ GRAY	WESTSIDE-EXTERIOR
7	115							NORTHSIDE-EXTERIOR
8	116							EASTSIDE-EXTERIOR
9	117		INTERIOR	#101 OFFICE	DRYWALL/ JOINT COMPOUND		WHITE/ BROWN	#101-OFFICE
10	118			#103 OFFICE				#103-OFFICE
11	119			#108 OFFICE				#108-OFFICE
12	120			#108 STORAGE	WALL PLASTER/ BUTTON BOARD		GRAY/ BEIGE	#108-STORAGE

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	121	BUILDING 3 9333/9363 STEWART AV	INTERIOR	#108 STORAGE	WALL PLASTER/ BUTTON BOARD	GOOD	GRAY/ BEIGE	#108-STORAGE
2	122							
3	123				TAR PAPER		BLACK	
4	124							
5	125							
6	126			#101 OFFICE	4" COVE BASE/ MASTIC		GRAY/ BEIGE	#101-OFFICE
7	127							
8	128							
9	129			#103 OFFICE			WHITE/ BEIGE	#103-OFFICE
10	130							
11	131							
12	132			#108 OFFICE			BLACK/ BEIGE	#108-OFFICE

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	133	BUILDING 3 9333/9363 STEWART GRAY	INTERIOR	#108 OFFICE	4" COVE BASE/ MASTIC	GOOD	BLACK/ BEIGE	#108-OFFICE
2	134							
3	135			#103 RESTROOM	CERAMIC WALL TILE GROUT		GRAY	#103-RESTROOM
4	136							
5	137				CERAMIC FLOOR TILE GROUT			
6	138							
7	139							
8	140							
9	141			#101- OFFICE	CARPET MASTIC		YELLOW	#101-OFFICE
10	142			#103- OFFICE				#103-OFFICE
11	143			#108- OFFICE				#108-OFFICE
12	144			#101 OFFICE	12"x12" FLOOR TILE/MASTIC		GRAY/ YELLOW	#101-OFFICE

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

PAGE 13 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	145	BUILDING 3 9333/9363 STORAGE+OBAY	INTERIOR	#101 OFFICE	12"X12" FLOOR TILE/MASTIC	GOOD	GRAY/ YELLOW	#101-OFFICE
2	146							
3	147			#103 OFFICE				#103-OFFICE
4	148							
5	149							
6	150			#108 RESTROOM	VINYL FLOORING		BROWN	#108-RESTROOM
7	151							
8	152							
9	153	STORAGE BLDG. 9350 HALL ROAD	INTERIOR	OFFICE AREA	1'X1' CEILING TILE	GOOD	WHITE/ BEIGE	OFFICE AREA
10	154							
11	155							
12	156				2'X4' DROP CEILING TILE			

INSPECTOR(S): BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM
BULK SAMPLE SUMMARY LOG

PAGE 14 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	157	STORAGE BLDG 9350 HALL ROAD	INTERIOR	OFFICE AREA	2'X4' DROP CEILING TILE	GOOD	WHITE/ BEIGE	OFFICE AREA
2	158							
3	159			OFFICE AREA	DRYWALL/ JOINT COMPOUND		WHITE/ BROWN	OFFICE AREA
4	160							
5	161							
6	162							
7	163							
8	164			OFFICE AREA	4" COVEBASE/ MASTIC		BLACK/ BEIGE	OFFICE AREA
9	165							
10	166							
11	167				12"X12" FLOOR TILE/ MASTIC		GRAY/ YELLOW	
12	168							

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	169	STORAGE BLDG. 9350 HAUL ROAD	INTERIOR	OFFICE AREA	12"X12" FLOOR TILE/MASTIC	GOOD	GRAY/YELLOW	OFFICE AREA
2	170				VINYL FLOORING			
3	171							
4	172							
5	173				CARPET MASTIC		YELLOW	
6	174							
7	175							
8	176	BUILDING 253 9399 STEWART GRAY	INTERIOR	OFFICE AREA	1'X1' CEILING TILE	GOOD	WHITE/BROWN	OFFICE AREA
9	177							
10	178							
11	179				CEILING TILE MASTIC		BROWN	
12	180							

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	181	BUILDING 2B 9399 STEWART & GRAY	INTERIOR	OFFICE AREA	CEILING TILE MASTIC	GOOD	BROWN	OFFICE AREA
2	182			WAREHOUSE OFFICE	2'X4' DROP CEILING TILE		WHITE/ BROWN	WAREHOUSE AREA
3	183							
4	184							
5	185			WAREHOUSE STORAGE	1'X1' CEILING TILE			WAREHOUSE STORAGE
6	186							
7	187							
8	188			OFFICE AREA	DRYWALL/ JOINT COMPOUND		WHITE/ BROWN	OFFICE AREA
9	189							
10	190							
11	191							
12	192							

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	193	BUILDING 2B 9399 STEWART & GRAY	INTERIOR	WAREHOUSE OFFICE	DRYWALL/ JOINT COMPOUND	GOOD	WHITE/ BROWN	WAREHOUSE OFFICE
2	194							
3	195							
4	196			WAREHOUSE STORAGE				WAREHOUSE STORAGE
5	197							
6	198							
7	199							
8	200							
9	201			OFFICE AREA	4" CURVE BASE/ MASTIC		GRAY/ BEIGE	OFFICE AREA
10	202							
11	203							
12	204						BLACK/ BROWN	

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	205	BUILDING 23 9399 STEWART + GRAY	INTERIOR	OFFICE AREA	4" COVE BASE/ MASTIC	GOOD	BLACK/ BROWN	OFFICE AREA
2	206							
3	207				6" COVE BASE/ MASTIC			
4	208							
5	209							
6	210			WAREHOUSE OFFICE	4" COVE BASE/ MASTIC		BROWN/ BEIGE	WAREHOUSE OFFICE
7	211							
8	212							
9	213			RESTROOM	CERAMIC WALL TILE GROUT		WHITE/ YELLOW	RESTROOM
10	214							
11	215							
12	216				CERAMIC FLOOR TILE GROUT		GRAY	

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	217	BUILDING 23 9399 STEWART + GRAY	INTERIOR	RESTROOM	CERAMIC FLOOR TILE/GROUT	GOOD	GRAY	RESTROOM
2	218	↓	↓	↓	↓	↓	↓	↓
3	219	↓	↓	OFFICE AREA	CARPET MASTIC	↓	YELLOW	OFFICE AREA
4	220	↓	↓	↓	↓	↓	↓	↓
5	221	↓	↓	↓	↓	↓	↓	↓
6	222	↓	↓	OFFICE AREA	QUARRY FLOOR TILE/MASTIC	↓	GREEN/ BLACK	OFFICE AREA
7	223	↓	↓	↓	↓	↓	↓	↓
8	224	↓	↓	↓	↓	↓	↓	↓
9	225	↓	↓	↓	↓	↓	TAN/ BLACK	↓
10	226	↓	↓	↓	↓	↓	↓	↓
11	227	↓	↓	↓	↓	↓	↓	↓
12	228	↓	↓	↓	↓	↓	GRAY/ BLACK	↓

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	229	BUILDING 23 9399 STEWART GRAY	INTERIOR	OFFICE AREA	9"X9" FLOOR TILE/MASTIC	GOOD	GRAY/ BLACK	OFFICE AREA
2	230							
3	231			BATHROOM	VINYL FLOORING		WHITE/ YELLOW	BATHROOM
4	232							
5	233							
6	234			OFFICE AREA	12"X12" FLOOR TILE/MASTIC		DARK GRAY/ YELLOW	OFFICE AREA
7	235							
8	236							
9	237						LIGHT GRAY/ YELLOW	
10	238							
11	239							
12	240						BROWN/ BLACK	

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

PAGE 21 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	241	BUILDING 2B 9399 STEWART + GRAY	INTERIOR	OFFICE AREA	12"X12" FLOOR TILE/MASTIC	GOOD	BROWN/ BLACK	OFFICE AREA
2	242							
3	243						TAN/ BLACK	
4	244							
5	245							
6	246						BEIGE/ YELLOW	
7	247							
8	248							
9	249			WAREHOUSE OFFICE			GRAY/ YELLOW	WAREHOUSE OFFICE
10	250							
11	251							
12	252	BUILDING 2A 9400 HALL ROAD	INTERIOR	OFFICE AREA	12"X12" CEILING TILE/MASTIC	GOOD	WHITE/ BROWN	OFFICE AREA

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	253	BUILDING 2A 9400 HALL ROAD	INTERIOR	OFFICE AREA	1'X1' CEILING TILE/MASTIC	GOOD	WHITE/ BROWN	OFFICE AREA
2	254	↓	↓	↓	↓	↓	↓	↓
3	255	↓	↓	OFFICE AREA	DRYWALL/ JOINT COMPOUND	↓	WHITE/ BROWN	OFFICE AREA
4	256	↓	↓	↓	↓	↓	↓	↓
5	257	↓	↓	↓	↓	↓	↓	↓
6	258	↓	↓	↓	↓	↓	↓	↓
7	259	↓	↓	↓	411 ↓	↓	↓	↓
8	260	↓	↓	OFFICE AREA	CUE BOSE/ MASTIC	↓	BROWN/ BEIGE	OFFICE-1ST FLOOR
9	261	↓	↓	↓	↓	↓	↓	↓
10	262	↓	↓	↓	↓	↓	↓	↓
11	263	↓	↓	↓	↓	↓	BLACK/ BEIGE	OFFICE-2ND FLOOR
12	264	↓	↓	↓	↓	↓	↓	↓

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	265	BUILDING 2A 9400 HALL ROAD	INTERIOR	OFFICE AREA	4" COVE BASE/ MASTIC	GOOD	BLACK/ BEIGE	OFFICE-2ND FLOOR
2	266			WAREHOUSE OFFICE	4" COVE BASE/ MASTIC		BROWN/ YELLOW	WAREHOUSE OFFICE
3	267							
4	268							
5	269						WHITE/ BROWN	
6	270							
7	271							
8	272			RESTROOM	6" COVE BASE/ MASTIC		GRAY/ BEIGE	RESTROOM
9	273							
10	274							
11	275						TAN/ BEIGE	
12	276							

INSPECTOR(S): BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM
BULK SAMPLE SUMMARY LOG

PAGE 24 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	277	BUILDING 7A 9400 HAUL ROAD	INTERIOR	RESTROOM	6" COVE BASE/ MASTIC	GOOD	TAN/ BEIGE	RESTROOM
2	278			MEN'S RESTROOM	CERAMIC WALL TILE GROUT		GRAY	MEN'S RESTROOM
3	279							
4	280							
5	281				CERAMIC FLOOR TILE GROUT			
6	282							
7	283							
8	284			OFFICE AREA	CARPET MASTIC		YELLOW	OFFICE AREA
9	285							
10	286							
11	287			WAREHOUSE OFFICE	9"X9" FLOOR TILE/MASTIC		GREEN/ BLACK	WAREHOUSE OFFICE
12	288							

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	289	BUILDING 2A 9400 HALL ROAD	INTERIOR	WAREHOUSE OFFICE	9"x9" FLOOR TILE/MASTIC	GOOD	GREEN/ BLACK	WAREHOUSE OFFICE
2	290			BREAK ROOM	12"x12" FLOOR TILE/MASTIC		BEIGE/ BROWN	BREAK ROOM
3	291							
4	292							
5	293			WAREHOUSE	VINYL FLOORING		WHITE/ TAN/ GRAY	WAREHOUSE-2ND FLOOR
6	294							
7	295							
8	296			STORAGE	VINYL FLOORING		TAN/ BEIGE	STORAGE
9	297							
10	298							
11	299			RESTROOM			TAN/ BEIGE	RESTROOM
12	300							

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	301	BUILDING 2A 9400 HALL ROAD	INTERIOR	RESTROOM	VINYL FLOORING	GOOD	TAN/ BEIGE	RESTROOM
2	302			WAREHOUSE	TAR PAPER		BLACK	WAREHOUSE
3	303							
4	304							
5	305		EXTERIOR	EXTERIOR WALL	STUCCO		RED	EXTERIOR
6	306							
7	307							
8	308	OFFICES 9402 HALL ROAD	INTERIOR	OFFICE AREA	1'X1' CEILING TILE	GOOD	WHITE/ BROWN	OFFICE AREA
9	309							
10	310							
11	311				2'X4' DROP CEILING TILE		WHITE/ BEIGE	
12	312							

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

PLM #511700150

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	313	OFFICES 9402 HALL ROAD	INTERIOR	OFFICE AREA	2'X4' DROP CEILING TILE	GOOD	WHITE/ BEIGE	OFFICE AREA
2	314				DRYWALL/ JOINT COMPOUND		WHITE/ BROWN	
3	315							
4	316							
5	317							
6	318							
7	319			OFFICE AREA	4" CUVE BASE/ MASTIC		BLACK/ WHITE	OFFICE AREA
8	320							
9	321							
10	322			RESTROOM	6" CUVE BASE/ MASTIC		BLACK/ BEIGE	RESTROOM
11	323							
12	324							

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM

BULK SAMPLE SUMMARY LOG

PAGE 28 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	325	OFFICES 9402 HALLROAD	INTERIOR	LOBBY	12"x12" FLOOR TILE/MASTIC	GOOD	BLACK/ YELLOW	LOBBY
2	326							
3	327							
4	328						GRAY YELLOW	
5	329							
6	330							
7	331						RED/ YELLOW	
8	332							
9	333							
10	334			HALLWAY			BROWN/ YELLOW	HALLWAY
11	335							
12	336							

INSPECTOR(S): BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

#511700150

PLM
BULK SAMPLE SUMMARY LOG

PAGE 29 OF 29

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	337	OFFICES 9402 HOLLYWOOD	INTERIOR	RESTROOM	12X12" FLOOR TILE MASTIC	GOOD	BLACK/ YELLOW	RESTROOM
2	338							
3	339							
4	340			OFFICE AREA	CARPET MASTIC		YELLOW	OFFICE AREA
5	341							
6	342							
7								
8								
9								
10								
11								
12								

INSPECTOR(S): BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 01216368.00, TASK 2

OrderID: 511700150

LA Testing
5431 Industrial Drive, Huntington Beach, CA 92649
Phone/Fax: (714) 828-4999 / (714) 828-4944
http://www.LATesting.com gardengrovelab@latesting.com

LA Testing Order: 331701211
CustomerID: SCSE34
CustomerPO:
ProjectID:

Attn: **Bob Pilzer**
SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806

Phone: (562) 426-9544
Fax: (562) 427-0805
Received: 01/18/17 10:55 AM
Collected: 1/10/2017

Project: **01216368.00/ Task 2/ Downey**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	*Collected*	*Analyzed*	*RDL*	*Lead Concentration*
01 *331701211-0001*	1/10/2017 Site: Office	1/19/2017	0.010 % wt	<0.010 % wt
02 *331701211-0002*	1/10/2017 Site: Warehouse breakroom	1/19/2017	0.010 % wt	<0.010 % wt
03 *331701211-0003*	1/10/2017 Site: Warehouse bathroom	1/19/2017	0.010 % wt	<0.010 % wt
04 *331701211-0004*	1/10/2017 Site: Office	1/19/2017	0.010 % wt	<0.010 % wt
05 *331701211-0005*	1/10/2017 Site: Office 2nd floor	1/19/2017	0.010 % wt	0.015 % wt
06 *331701211-0006*	1/10/2017 Site: Office warehouse	1/19/2017	0.010 % wt	<0.010 % wt
07 *331701211-0007*	1/10/2017 Site: Office	1/19/2017	0.010 % wt	<0.010 % wt
08 *331701211-0008*	1/10/2017 Site: #101 office	1/19/2017	0.010 % wt	<0.010 % wt
09 *331701211-0009*	1/10/2017 Site: #108 office	1/19/2017	0.010 % wt	<0.010 % wt
10 *331701211-0010*	1/10/2017 Site: Office	1/19/2017	0.010 % wt	<0.010 % wt
11 *331701211-0011*	1/10/2017 Site: Restroom	1/19/2017	0.010 % wt	<0.010 % wt

Michael Chapman

Michael Chapman, Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--ELLAP Accredited #101650, CA ELAP 1406

Initial report from 01/23/2017 13:35:40

LA Testing
5431 Industrial Drive, Huntington Beach, CA 92649
Phone/Fax: (714) 828-4999 / (714) 828-4944
http://www.LATesting.com gardengrovelab@latesting.com

LA Testing Order: 331701211
CustomerID: SCSE34
CustomerPO:
ProjectID:

Attn: **Bob Pilzer**
SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806

Phone: (562) 426-9544
Fax: (562) 427-0805
Received: 01/18/17 10:55 AM
Collected: 1/10/2017

Project: **01216368.00/ Task 2/ Downey**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	*Collected*	*Analyzed*	*RDL*	*Lead Concentration*
12	1/10/2017	1/19/2017	0.010 % wt	<0.010 % wt
331701211-0012	Site: Office Area			
13	1/10/2017	1/19/2017	0.010 % wt	<0.010 % wt
331701211-0013	Site: Office Area			
14	1/10/2017	1/19/2017	0.010 % wt	0.11 % wt
331701211-0014	Site: Office 1st floor			
15	1/10/2017	1/19/2017	0.010 % wt	0.24 % wt
331701211-0015	Site: Office 2nd floor			
16	1/10/2017	1/19/2017	0.010 % wt	0.029 % wt
331701211-0016	Site: Office Area			
17	1/10/2017	1/19/2017	0.010 % wt	<0.010 % wt
331701211-0017	Site: Office Area			
18	1/10/2017	1/19/2017	0.010 % wt	<0.010 % wt
331701211-0018	Site: Office Area			

Michael Chapman, Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--ELLAP Accredited #101650, CA ELAP 1406

Initial report from 01/23/2017 13:35:40

OrderID: 331701211

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*:

331701211

LATESTING
520 MISSION STREET
SOUTH PASADENA, CA
91030
PHONE: (800) 303-0047
FAX: (323)-254-9982

Company : SCS ENGINEERS	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 3900 KILROY AIRPORT WAY, SUITE 100	*Third Party Billing requires written authorization from third party*
City: LONG BEACH **State/Province:** CA	**Zip/Postal Code:** 90806 **Country:** USA
Report To (Name): BOB PILZER	**Telephone #:** (562) 426-9544
Email Address: BPILZER@SCSENGINEERS.COM	**Fax #:** (562) 427-0805 **Purchase Order:** N/A
Project Name/Number: 01216368.00/TASK 2/ DOWNEY	**Please Provide Results:** ☐ Fax ☒ Email
U.S. State Samples Taken: CA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☒ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☒ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☒
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: BOB PILZER **Signature of Sampler:** Bob Bulger

Sample #	Location	Volume/Area	Date/Time Sampled
01 ↓ 18	SEE ATTACHED NSP BULK SAMPLE SUMMARY LOG	N/A	1/10/17-1/11/17

Client Sample #'s 01 TO 18 **Total # of Samples:** 18

Relinquished (Client):	BPILZER/Bob Bulger	**Date:**	1/17/17	**Time:**	10:50
Received (Lab):	(W1)	**Date:**	1/17/17	**Time:**	10:55am

Comments:

LBP

BULK SAMPLE SUMMARY LOG

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	01	BUILDING 1A 9300 HALL ROAD	INTERIOR	OFFICE AREA	PAINT ON INTERIOR WALL	GOOD	WHITE	OFFICE
2	02	↓	↓	WAREHOUSE BREAKROOM	↓	↓	DARK PINK	WAREHOUSE BREAKROOM
3	03	↓	↓	WAREHOUSE BATHROOM	↓	↓	LIGHT PINK	WAREHOUSE BATHROOM
4	04	BUILDING 1B 9301 STEWART + GRAY	INTERIOR	OFFICE AREA	PAINT ON INTERIOR WALL	GOOD	WHITE	OFFICE
5	05	↓	↓	↓	↓	↓	GRAY	OFFICE - 2ND FLOOR
6	06	↓	↓	↓	↓	↓	YELLOW	OFFICE/WAREHOUSE
7	07	↓	↓	↓	↓	↓	BROWN	OFFICE
8	08	BUILDING 3 9333/9363 STEWART+GRAY	INTERIOR	OFFICE AREA	PAINT ON INTERIOR WALL	GOOD	GREEN	#101 - OFFICE
9	09	↓	↓	↓	↓	↓	WHITE	#108 - OFFICE
10	10	STORAGE BLDG 9350 HALL ROAD	INTERIOR	OFFICE AREA	PAINT ON INTERIOR WALL	GOOD	GREEN	OFFICE
11	11	↓	↓	RESTROOM	↓	↓	WHITE	RESTROOM
12	12	BUILDING 2B 9399 STEWART+GRAY	INTERIOR	OFFICE AREA	PAINT ON INTERIOR WALL	GOOD	GREEN	OFFICE AREA

INSPECTOR(S) : BOB PILZER DATE: 1/10/17-1/11/17 JOB NO.: 012/6368.00, TASK 2

OrderID: 331701211

-331701211

Page 2 of 3

LBP

BULK SAMPLE SUMMARY LOG

PAGE 2 OF 2

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	13	BUILDING 2B 9349 STEWART + GRAY	INTERIOR	OFFICE AREA	PAINT ON INTERIOR WALL	GOOD	WHITE	OFFICE AREA
2	14	BUILDING 2A 9400 HALL ROAD	↓	↓	↓	↓	WHITE	OFFICE - 1ST FLOOR
3	15	↓	↓	↓	↓	↓	GREEN	OFFICE - 2ND FLOOR
4	16	OFFICES 9402 HALL ROAD	INTERIOR	OFFICE AREA	PAINT ON INTERIOR WALL	GOOD	WHITE	OFFICE AREA
5	17	↓	↓	↓	↓	↓	GREEN	↓
6	18	↓	↓	↓	↓	↓	TAN	↓
7								
8								
9								
10								
11								
12								

INSPECTOR(S) : BOB PILZER

DATE: 1/10/17-1/11/17 JOB NO.: 012/6368.00, TASK 2

OrderID: 331701211

-331701211

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

SCS Engineers
3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806-6816

Number of Pages	**2**
Date Received	**01/13/2017**
Date Reported	**01/18/2017**

Telephone: (562)426-9544
Attention: Bob Pilzer

Job Number	Order Date	Client
86234	01/13/2017	SCS

Project ID: 01216368.00,TASK 2
Project Name: Prolosis Downey Industrial Ctr
Site: 9300-9402 Hallroad+9301-9399
Stewart & Orv Rd
Downey, CA 90241

Enclosed please find results of analyses of 4 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

№ 99800

AETL JOB No. 86234

Page 1 of 1

COMPANY: SCS ENGINEERS
PROJECT MANAGER: BOB PILZER
COMPANY ADDRESS: 3900 KILROY AIRPORT WAY, #100, LONG BEACH, CA 90806
PHONE: (562) 426-9544
FAX: (562) 427-0805
PROJECT NAME: PROLOGIS DOWNEY INDUSTRIAL CENTER
PROJECT #: 01216368.00, TASK 2
SITE NAME AND ADDRESS: 9300-9402 HALL ROAD + 9301-9399 STEWART AND GRAY ROAD, DOWNEY, CA 90241
PO #: NO P.O.

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 200.8	TEST INSTRUCTIONS & COMMENTS
1	01	86234.01	1/10/17	13:15	WATER	1-250 ml	HNO_3	X	
2	02	86234.02	1/10/17	16:15	WATER	1-250 ml	HNO_3	X	
3	03	86234.03	1/11/17	09:15	WATER	1-250 ml	HNO_3	X	
4	04	86234.04	1/11/17	14:15	WATER	1-250 ml	HNO_3	X	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	4	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

- [X] NORMAL
- [ ] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [X] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: BOB PILZER	Printed Name:	Printed Name:
Date: 1/12/17 Time: 08:00	Date: Time:	Date: 1/13/17 Time: 1300
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: 1/13/17 Time: 0940	Date: Time:	Date: 1/13/17 Time: 1300

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

SCS Engineers
3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806-6816

Telephone: (562)426-9544
Attention: Bob Pilzer

Project ID: 01216368.00,TASK 2
Date Received 01/13/2017
Date Reported 01/18/2017

Job Number	Order Date	Client
86234	01/13/2017	SCS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 01/13/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
86234.01	01	01/10/2017	Aqueous	1
86234.02	02	01/10/2017	Aqueous	1
86234.03	03	01/10/2017	Aqueous	1
86234.04	04	01/10/2017	Aqueous	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
200.8 ^ PB	01/20/2017	2	Normal	ug/L

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816

Telephone: (562)426-9544
Attn: Bob Pilzer

Site

9300-9402 Hallroad+9301-9399
Stewart & Orv Rd
Downey, CA 90241

Project ID: 01216368.00,TASK 2
Project Name: Prolosis Downey Industrial Ctr

AETL Job Number	Submitted	Client
86234	01/13/2017	SCS

Method: 200.8, Lead by ICP/MS

QC Batch No: 0113161C1

Our Lab I.D.			Method Blank	86234.01	86234.02	86234.03	86234.04
Client Sample I.D.				01	02	03	04
Date Sampled				01/10/2017	01/10/2017	01/10/2017	01/10/2017
Date Prepared			01/13/2017	01/13/2017	01/13/2017	01/13/2017	01/13/2017
Preparation Method			200.8	200.8	200.8	200.8	200.8
Date Analyzed			01/16/2017	01/16/2017	01/16/2017	01/16/2017	01/16/2017
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	0.5	0.5	ND	2.09	ND	1.09	0.946

QUALITY CONTROL REPORT

QC Batch No: 0113161C1; Dup or Spiked Sample: 86260.1; LCS: Clean Water; QC Prepared: 01/13/2017; QC Analyzed: 01/16/2017; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	4.85	10.0	14.7	98.5	10.0	14.7	98.5	<1	80-120	<15

QC Batch No: 0113161C1; Dup or Spiked Sample: 86260.1; LCS: Clean Water; QC Prepared: 01/13/2017; QC Analyzed: 01/16/2017; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	10.0	10.3	103	10.0	10.5	105	1.9	80-120	<15	

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Attachment 2

SCS Licenses

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Robert M Pilzer, Jr.
Name

Certification No. **96-2024**

Expires on **09/09/17**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	04/09/2017
Supervisor	04/09/2017
[redacted] Designer	04/09/2017
Project Monitor	04/09/2017

Robert M. Pilzer, Jr. **ID #: 4016**

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Christopher F Romanowski
Name

Certification No. 14-5215

Expires on 05/14/17

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate | Certificate Type | Expiration Date

Sampling Technician 08/18/2017

Christopher F. Romanowski ID #: 26137

Appendix I

Low Impact Development Plan

Low Impact Development Plan
(LID Plan)

Project Name:

Prologis Warehouse Stewart and Gray

Prepared for:

Prologis, Inc.

9301 Stewart and Gray Road

Downey, CA 90241

Prepared by:

Kimley-Horn & Associates

1100 Town And Country Road, Suite 700

Orange, CA 92868

(714) 939-1030

PE Stamp & Sign Here

June 2021

Project Owner's Certification

I certify under penalty of law that this document and all attachments were prepared under my jurisdiction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathered the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner's Name:			
Company:	Prologis, Inc.		
Address:			
Email:			
Telephone No:			
Signature:		Date:	

Preparer (Engineer) Certification

Engineer's Name:	Hunter Starkey		
Engineer's Title:	P.E.		
Company:	Kimley-Horn & Associates		
Address:	1100 Town and Country Road, Suite 700, Orange, CA 92868		
Email:	Hunter.Starkey@kimley-horn.com		
Telephone No:	714-705-1360		
I hereby certify that this Low Impact Development Plan is in compliance with, and meets the requirements set forth in, Order No. R4-2012-0175, of the Los Angeles Regional Water Quality Control Board.			
Engineer's Signature		Date	
Place Stamp Here			

Table of Contents

1. Project Description 1

1.1. Project Category 1

1.2. Project Description 2

1.3. Hydromodification Analysis 4

1.4. Property Ownership/Management 5

2. Best Management Practices (BMPs) 6

2.1. Site Design 6

2.2. BMP Selection 7

2.2.1. Infiltration BMPs 7

2.2.2. Rainwater Harvest and Use BMPs 8

2.2.3. Alternative Compliance BMPs 9

2.2.4. Treatment Control BMPs 11

2.2.5. Hydromodification Control BMPs 12

2.2.6. Non-structural Source Control BMPs 13

2.2.7. Structural Source Control BMPs 14

Attachments

Attachment A ..... Calculations

Attachment B ..... LID Exhibit and BMP Details

Attachment C ..... Construction Plans

Attachment D ..... Master Covenant and Agreement (MCA)

Attachment E ..... Operations and Maintenance (O&M) Plan

Attachment F ..... Geotechnical Investigation

Attachment G ..... Educational Materials

1. PROJECT DESCRIPTION

1.1. PROJECT CATEGORY

Category	YES	NO
1. Development [a] of a new project equal to 1 acre or greater of disturbed area and adding more than 10,000 square feet of impervious area [b]	☐	☒
2. Development [a] of a new industrial park with 10,000 square feet or more of surface area [c]	☐	☒
3. Development [a] of a new commercial mall with 10,000 square feet or more surface area [c]	☐	☒
4. Development [a] of a new retail gasoline outlet with 5,000 square feet or more of surface area [c]	☐	☒
5. Development [a] of a new restaurant (SIC 5812) with 5,000 square feet or more of surface area [c]	☐	☒
6. Development [a] of a new parking lot with either 5,000 ft^2 or more of impervious area [b] or with 25 or more parking spaces	☐	☒
7. Development [a] of a new automotive service facility (SIC 5013, 5014, 5511, 5541, 7532-7534 and 7536-7539) with 5,000 square feet or more of surface area [c]	☐	☒
8. Projects located in or directly adjacent to, or discharging directly to a Significant Ecological Area (SEA),[d] where the development will: a. Discharge stormwater runoff that is likely to impact a sensitive biological species or habitat; and b. Create 2,500 square feet or more of impervious area [b]	☐	☒
9. Redevelopment [e] of 5,000 square feet or more in one of the categories listed above **If yes, list redevelopment category here:** Office building	☒	☐
10. Redevelopment [e] of 10,000 square feet or more to a Single Family Home, without a change in landuse.	☐	☒

a Development includes any construction or demolition activity, clearing, grading, grubbing, or excavation or any other activity that results in land disturbance.

b Surfaces that do not allow stormwater runoff to percolate into the ground. Typical impervious surfaces include: concrete, asphalt, roofing materials, etc.

c The surface area is the total footprint of an area. Not to include the cumulative area above or below the ground surface.

d An area in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and would be disturbed or degraded by human activities and developments. Also, an area designated by the City as approved by the Regional Water Quality Control Board.

e Land-disturbing activities that result in the creation, addition, or replacement of a certain amount of impervious surface area on an already developed site. Redevelopment does not include routine maintenance activities that are conducted to maintain the original line and grade, hydraulic capacity, or original purpose of facility, nor does it include modifications to existing single family structures, or emergency construction activities required to immediately protect public health and safety.

1.2. PROJECT DESCRIPTION

Project Address: 9301 Stewart and Gray Road, Downey, CA 90241

Total Project Area (ft^2): 1,270,434

Total Project Area (Ac): 29.2

Percentage of disturbed area of the total area: 100%

EXISTING CONDITIONS

Condition	Area (Ac)	Percentage (%)
Pervious Area:	0.47	1.6
Impervious Area:	28.73	98.4

PROPOSED CONDITIONS

Condition	Area (Ac)	Percentage (%)
Pervious Area:	1.60	5.5
Impervious Area:	27.6	94.5

SITE CHARACTERISTICS

DRAINAGE PATTERNS/CONNECTIONS	Existing: In the existing condition, runoff flows away from the existing buildings and sheet flows from north to south.
	Proposed: In the proposed condition, improvements include construction of new industrial buildings, parking lots and landscape islands. There will be two on-site drainage management area (DMA) graded for the site. Infiltration has been determined to be infeasible for this project due to contaminated soils on-site. The runoff from the DMAs will be collected via surface runoff into a series of drop inlets that will route to an underground detention vault for stage and a proposed WetlandMOD system unit for treatment. The treated flow will be pumped off-site to spill to grade at the driveway and mimic the drainage pattern in existing conditions. DMA 1 is roughly half of the western portion of the site. Storm water runoff will sheet flow into one of the drop inlets on site. The inlet and storm drain system will transport the storm water southerly into a detention chamber and the proposed WetlandMOD system unit located

	in the southwest corner of the parking lot and the southwest landscaping island. DMA 2 is roughly half of the eastern portion of the site. Storm water runoff will sheet flow into one of the drop inlets in the DMA. The inlet and storm drain system will transport the storm water southerly into a detention chamber and the proposed WetlandMOD system unit located in the southwest corner of the parking lot in a landscaping island in the southeast corner. DMA 1 – 14.50 Ac DMA 2 – 14.66 Ac
NARRATIVE PROJECT DESCRIPTION:	The project involves the resurfacing of a parking lot and the construction of a new office building and parking lot. All existing site paving will be demolished and reconstructed per the geotechnical recommendations.

OFFSITE RUNON	No offsite runon
UTILITY AND INFRASTRUCTURE INFORMATION	Stormwater quality control measures are not anticipated to conflict with proposed and/or existing utilities.
SIGNIFICANT ECOLOGICAL AREAS (SEAS)	N/A

1.3. HYDROMODIFICATION ANALYSIS

DOES THE PROPOSED PROJECT FALL INTO ONE OF THE FOLLOWING CATEGORIES? CHECK YES/NO.	YES	NO
1. *Project is a redevelopment that decreases the effective impervious area compared to the pre-project conditions.*	☒	☐
Describe: Pervious area will increase in the proposed conditions.		
2. *Project is a redevelopment that increases the infiltration capacity of pervious areas compared to the pre-project conditions.*	☐	☒
Describe: Infiltration is infeasible due to the contaminated soils on site.		
3. *Project discharges directly or via a storm drain to a sump, lake, area under tidal influence, into a waterway that has a 100-year peak flow (Q_{100}) of 25,000 cfs or more.*	☐	☒
Describe: The DMA discharges into a municipal storm drain system in the public street.		
4. *Project discharges directly or via a storm drain into concrete or otherwise engineered (not natural) channels (e.g., channelized or armored with rip rap, shotcrete, etc.), which, in turn, discharge into receiving water that is not susceptible to hydromodification impacts.*	☒	☐
Describe: The project discharges into the San Gabriel River.		

HYDROMODIFICATION ANALYSIS

Pervious area is increasing, exempt from hydromodication requirements.

1.4. PROPERTY OWNERSHIP/MANAGEMENT

OWNER INFORMATION	No infrastructure is required to be transferred to public agencies currently. There are currently no street, road, or highway projects that are planned and constructed as a part of this WQMP. **Property Owner Information** Name: Company: Prologis, Inc. Email:

2. BEST MANAGEMENT PRACTICES (BMPS)

2.1. SITE DESIGN

85TH PERCENTILE, 24-HOUR STORM DEPTH	1.00 inch
SITE DESIGN	Infiltration has been determined to be infeasible for this project due to contaminated soils.

BMP LIST

DMA DESIGNATION	ACREAGE (AC)	STORM WATER QUALITY DESIGN VOLUME (SWQVD, CF)	BMP TYPE	MINIMUM BMP VOLUME	BMP VOLUME PROVIDED
1	14.50	44,893	Bioclean Wetland MOD-22-29-V	44,893 CF *1.5 = 67,340 CF	67,340 CF
2	14.66	45,388	Bioclean Wetland MOD-22-29-V	45,388 CF *1.5 = 68,082 CF	68,082 CF
Total	= 29.16 Ac				

2.2. BMP SELECTION

2.2.1. INFILTRATION BMPS

NAME	INCLUDED
Bioretention without underdrains	☐
Infiltration Trench	☐
Infiltration Basin	☐
Drywell	☐
Proprietary Subsurface Infiltration Gallery	☐
Permeable Pavement (concrete, asphalt, pavers)	☐
Other: Bioretention Basin	☐
Other:	☐

DESCRIPTION	N/A
CALCULATIONS	N/A

2.2.2. RAINWATER HARVEST AND USE BMPS

NAME	INCLUDED
Above-ground cisterns and basins	☐
Underground detention	☐
Other:	☐
Other:	☐
Other:	☐

DESCRIPTION	Rainwater and Harvest Use BMPs are infeasible at this site. On-site landscaping is limited and
CALCULATIONS	N/A

2.2.3. ALTERNATIVE COMPLIANCE BMPS

BIORETENTION BMPS

(If Infiltration BMPs and Rainwater Harvest and Use BMPs are Infeasible)

NAME	INCLUDED
Bioretention with underdrains (i.e. planter box, rain garden, etc.)	☒
Constructed Wetland	☒
Vegetated Swale	☐
Vegetated Filter Strip	☐
Tree-Well Filter	☐
Other:	☐
Other:	☐

DESCRIPTION	The stormwater collection and treatment system consists of a detention vault, a Bioclean Wetland MOD-22-27-V for DMA 1 and a Bioclean Wetland MOD-22-28-V for DMA 2, and a Wetland MOD Discharge Pump Station. This setup is the same for DMA 1 and DMA 2, other than the differing Wetland MODs. Water enters the detention chamber through the on-site inlets, is routed to the storage vault and then enters the WetlandMOD for treatment and is pumped to spill to grade at driveway. The WetlandMOD consists of a manufactured planter box with engineering soil, media, planting, and an underdrain. The engineered soil is per the LA County Manual Attachment H specified media. The system has been sized for a 96-hour drawdown time. Since the inlet orifice has been sized to threat the 85th percentile storm, in the event of a large storm event storm water will not be allowed to enter the system and will sheetflow off-site.
CALCULATIONS	Calculations were done through Hydrocalc 1.0.3. The calculations were done by using the 85th percentile and results can be found in Attachment A: Calculations.

OFFSITE BMPS

(If Infiltration BMPs, Rainwater Harvest and Use BMPs, and Bioretention BMPs are Infeasible)

NAME	INCLUDED
Offsite Infiltration	☐
Ground Water Replenishment Projects	☐
Offsite Project - Retrofit Existing Development	☐
Regional Storm Water Mitigation Program	☐
Other:	☐
Other:	☐

DESCRIPTION	N/A
CALCULATIONS	N/A

2.2.4. TREATMENT CONTROL BMPS

NAME	INCLUDED
Media Filter	☐
Filter Insert	☐
CDS Unit	☐
Other:	☐
Other:	☐

DESCRIPTION	N/A

2.2.5. HYDROMODIFICATION CONTROL BMPS

NAME	INCLUDED
Infiltration System	☐
Above-ground Cistern	☐
Above-ground Basin	☐
Underground Detention	☐
Other:	☐
Other:	☐

DESCRIPTION	N/A
CALCULATIONS	N/A

2.2.6. NON-STRUCTURAL SOURCE CONTROL BMPS

NAME	CHECK ONE	
	Included	**Not Applicable**
Education for Property Owners, Tenants and Occupants	☒	☐
Activity Restrictions	☒	☐
Common Area Landscape Management	☒	☐
Common Area Litter Control	☒	☐
Housekeeping of Loading Docks	☒	☐
Common Area Catch Basin Inspection	☒	☐
Street Sweeping Private Streets and Parking Lots	☒	☐

2.2.7. STRUCTURAL SOURCE CONTROL BMPS

NAME	CHECK ONE	
	Included	**Not Applicable**
Provide storm drain system stenciling and signage	☒	☐
Design and construct outdoor material storage areas to reduce pollution introduction	☒	☐
Design and construct trash and waste storage areas to reduce pollution introduction	☒	☐
Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control	☒	☐
Protect slopes and channels and provide energy dissipation	☐	☒
Loading docks	☒	☐
Maintenance bays	☐	☒
Vehicle wash areas	☐	☒
Outdoor processing areas	☐	☒
Equipment wash areas/racks	☐	☒
Fueling areas	☐	☒
Hillside landscaping	☐	☒

Attachment A

Calculations

Peak Flow Hydrologic Analysis

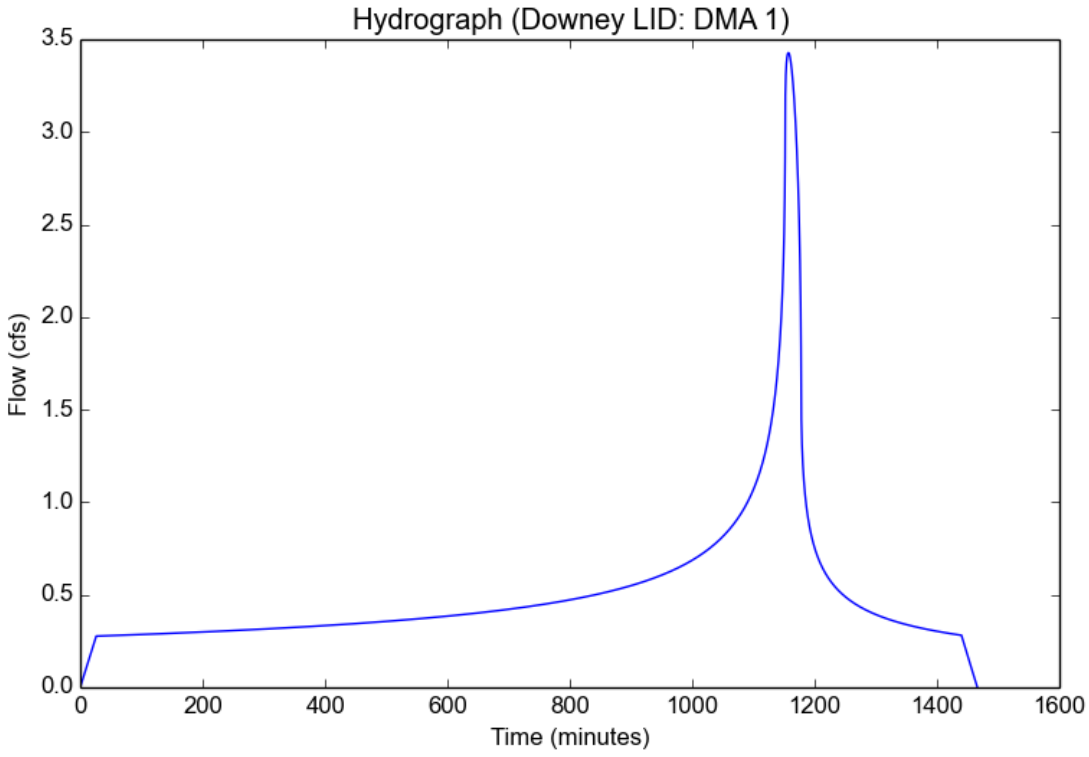
File location: K:/ORA_LDEV/194187007 - Prologis Downey/Reports/LID/Appendices/Attachment A - Calculations/1_DCV DMA 1.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Downey LID
Subarea ID	DMA 1
Area (ac)	14.5
Flow Path Length (ft)	517.0
Flow Path Slope (vft/hft)	0.008
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	6
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2749
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.86
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	3.4281
Burned Peak Flow Rate (cfs)	3.4281
24-Hr Clear Runoff Volume (ac-ft)	1.0306
24-Hr Clear Runoff Volume (cu-ft)	44892.3861



Peak Flow Hydrologic Analysis

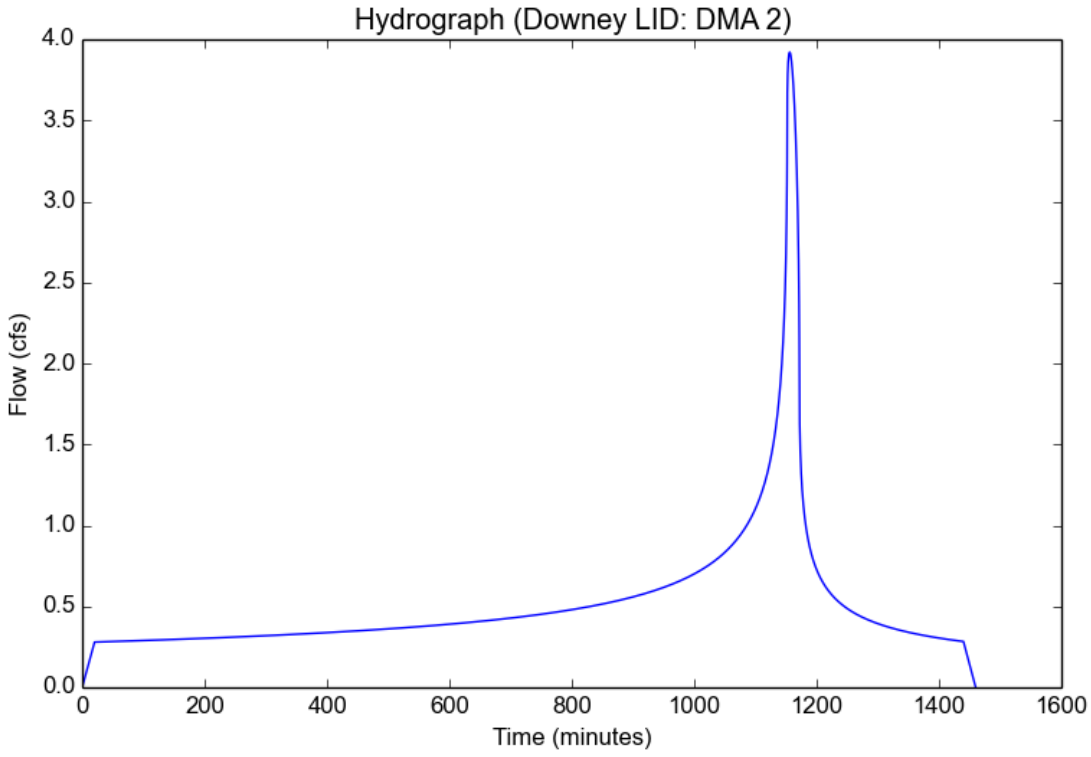
File location: K:/ORA_LDEV/194187007 - Prologis Downey/Reports/LID/Appendices/Attachment A - Calculations/2_DCV DMA 2.pdf
Version: HydroCalc 1.0.3

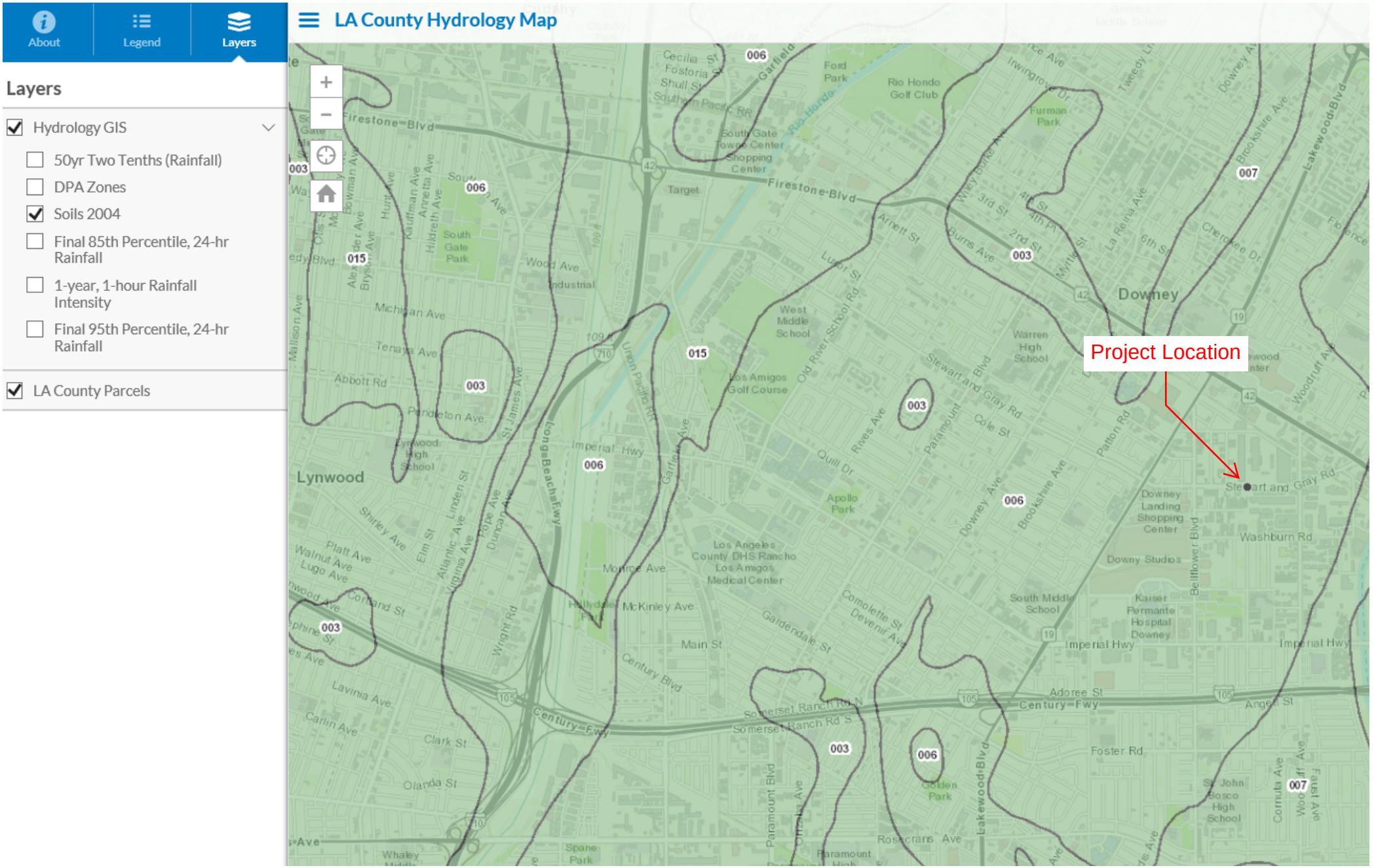
Input Parameters

Project Name	Downey LID
Subarea ID	DMA 2
Area (ac)	14.66
Flow Path Length (ft)	391.0
Flow Path Slope (vft/hft)	0.011
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	6
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

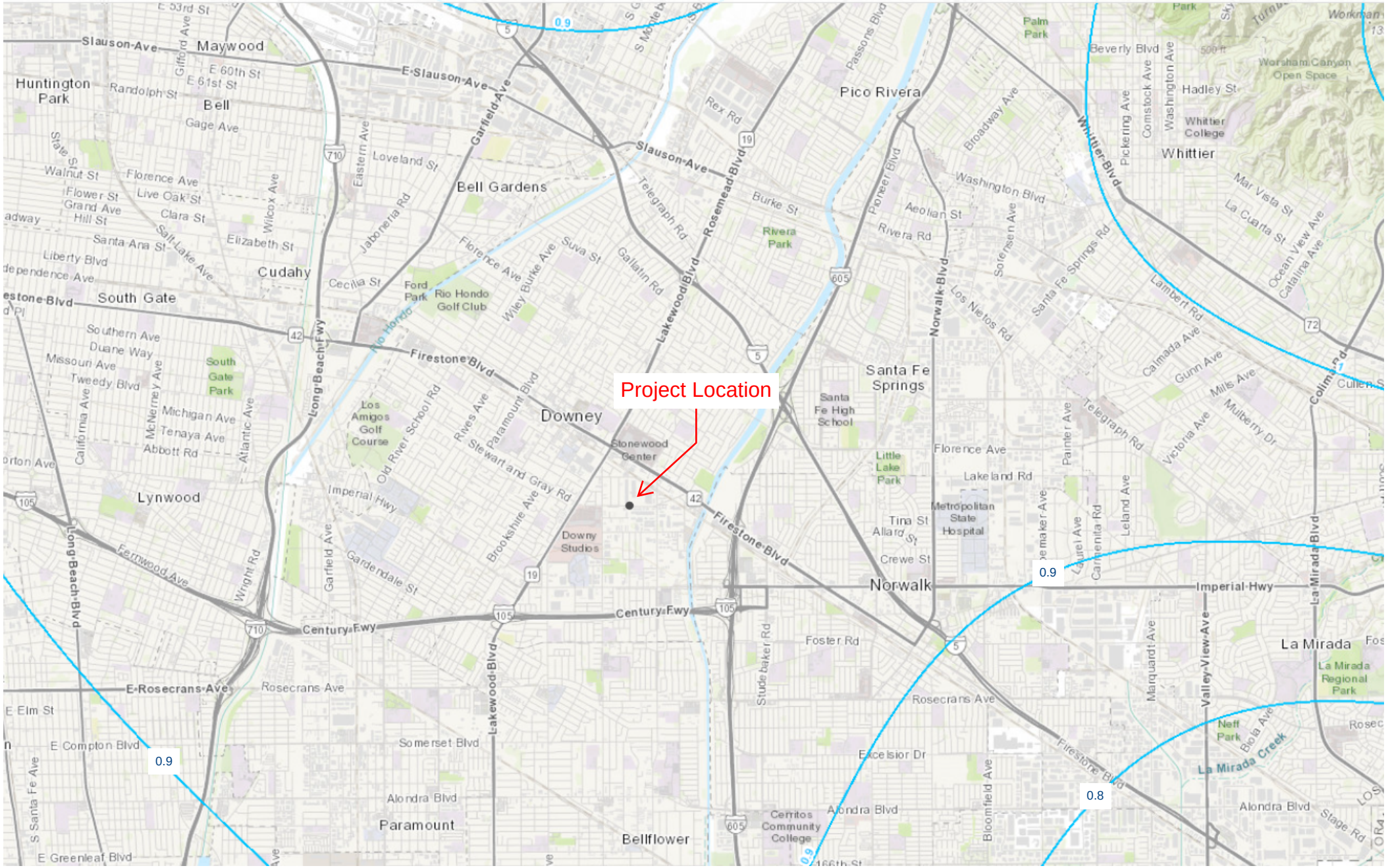
Output Results

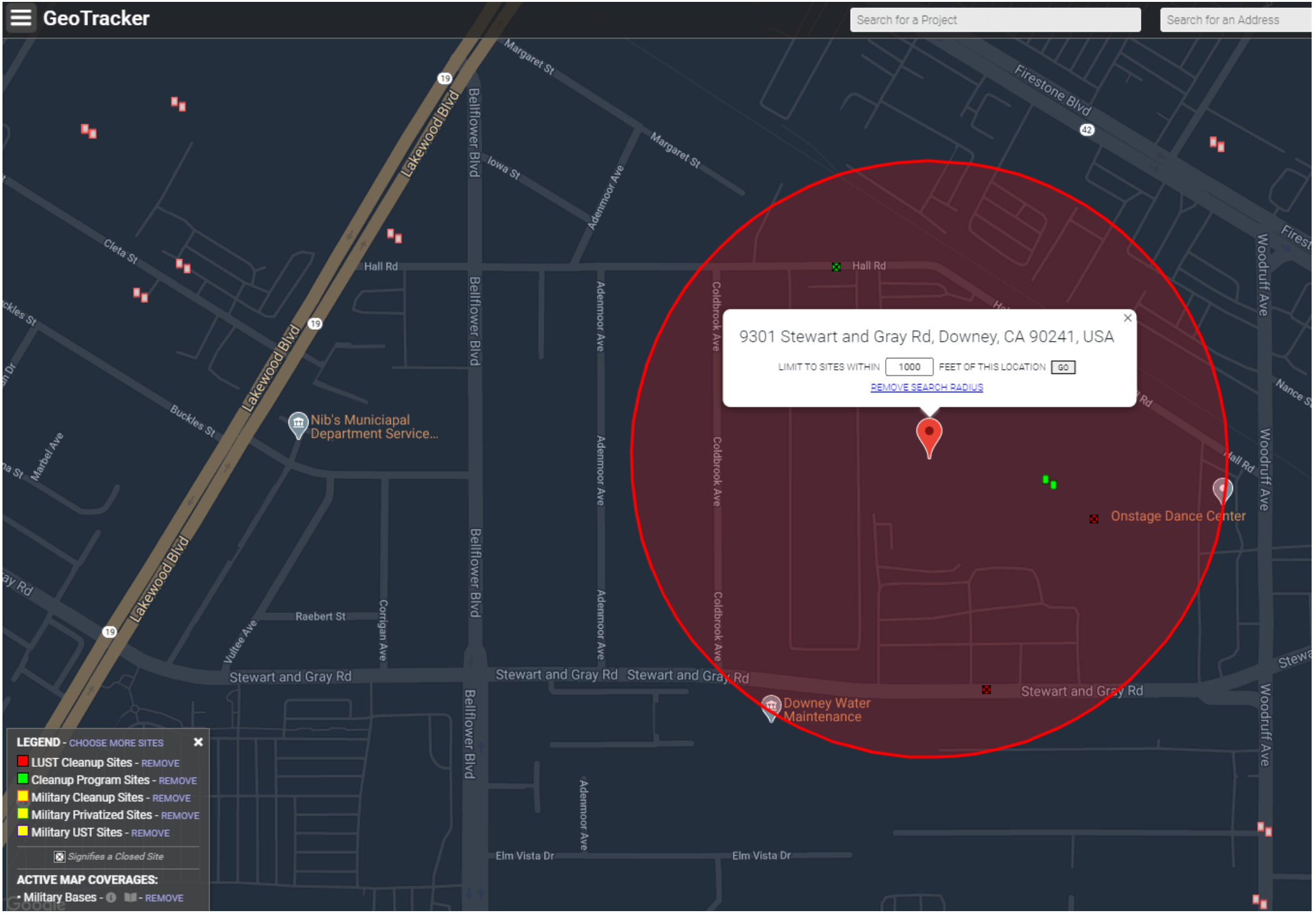
Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.311
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.86
Time of Concentration (min)	20.0
Clear Peak Flow Rate (cfs)	3.9207
Burned Peak Flow Rate (cfs)	3.9207
24-Hr Clear Runoff Volume (ac-ft)	1.042
24-Hr Clear Runoff Volume (cu-ft)	45387.5901




About
Legend
Layers
Layers
Hydrology GIS
50yr Two Tenths (Rainfall)
DPA Zones
Soils 2004
Final 85th Percentile, 24-hr Rainfall
1-year, 1-hour Rainfall Intensity
Final 95th Percentile, 24-hr Rainfall
LA County Parcels
LA County Hydrology Map
Project Location
Downey
Lynwood
Firestone Blvd
Century Fwy
Lakewood Blvd
Imperial Hwy
Stewart and Gray Rd
Washburn Rd
Adoree St
Foster Rd
Rio Hondo Golf Club
Los Amigos Golf Course
Los Angeles County DHS Rancho Los Amigos Medical Center
Downey Landing Shopping Center
Downy Studios
Kaiser Permante Hospital Downey
South Middle School
Warren High School
West Middle School
Apollo Park
Golden Park
Furman Park
Ford Park
Target
South Gate Park
Lynwood High School
Long Beach Fwy
Union Pacific RR
Garfield Ave
Paramount Blvd
Rosecrans Ave
Somerset Ranch Rd N
Somerset Ranch Rd S
Main St
Century Blvd
McKinley Ave
Monroe Ave
Imperial Hwy
Wood Ave
Michigan Ave
Tenaya Ave
Abbott Rd
Pendleton Ave
Shirley Ave
Platt Ave
Walnut Ave
Lugo Ave
Cortland St
Lavinia Ave
Carlin Ave
Clark St
Olanda St
Whaley
Spane Park
Paramount High
St John Bosco High School
Cornuta Ave
Woodruff Ave
Faust Ave
Cherokee Dr
Brookshire Ave
Lakewood Blvd
Downey Ave
Brookshire Ave
Patton Rd
Cole St
Stewart and Gray Rd
Quill Dr
Rives Ave
Paramount Blvd
Old River School Rd
Lugar St
Arnett St
Burns Ave
Wiley Burke Ave
Irwingrove Dr
Tweedy Ln
Downey Ave
Cecilia St
Fostoria St
Shull St
Southern Pacific RR
Rio Hondo
Garfield
Wright Rd
Duncan Ave
Pope Ave
Atlantic Ave
Linden St
Virginia Ave
Elm St
St James Ave
Hildreth Ave
Annetta Ave
Kauffman Ave
Bowman Ave
Alexander Ave
Bryson Ave
Hunt Ave
Mallison Ave
Gardendale St
Comolette St
Devenir Ave
Bellflower Blvd
Woodruff Ave
003
006
007
015
19
42
105
710
10

LA County Hydrology Map




GeoTracker
Search for a Project
Search for an Address
9301 Stewart and Gray Rd, Downey, CA 90241, USA
LIMIT TO SITES WITHIN 1000 FEET OF THIS LOCATION GO
REMOVE SEARCH RADIUS
Nib's Municipal Department Service...
Onstage Dance Center
Downey Water Maintenance
Lakewood Blvd
Bellflower Blvd
Margaret St
Iowa St
Adenmoor Ave
Hall Rd
Cleta St
Buckles St
Marbel Ave
Raebert St
Vultee Ave
Corrigan Ave
Stewart and Gray Rd
Coldbrook Ave
Firestone Blvd
Woodruff Ave
Nance St
Elm Vista Dr
LEGEND - CHOOSE MORE SITES
LUST Cleanup Sites - REMOVE
Cleanup Program Sites - REMOVE
Military Cleanup Sites - REMOVE
Military Privatized Sites - REMOVE
Military UST Sites - REMOVE
Signifies a Closed Site
ACTIVE MAP COVERAGES:
• Military Bases - REMOVE

WetlandMOD - 24" Media Thickness, Volume Based

Project ID:	12627
Project Name:	Downey Industrial
City, State, ZIP:	Downey, CA
Date:	

Blue = User Input
Gray = Formula
Green = Proceed
Red = Redo

WetlandMOD Size - DMA 1	**WM-22-27-V**

	User Input Data		
LA County 24"; Bay Area 18"	Media Thickness (in)	24	
Provided by EOR/ DMA area(s)	Treatment Volume (CF)	67340	
Drain Down Time in hours	Drain Down Time (hrs)	96	
LA 5-10in/hr; Bay Area 5-12in/hr	Infiltration Rate (in/hr)	12	
Add Row(s) to change footprint	Number of Row(s)	4	
	RIM/FG elevation	0.00	
	WM IE Out	-5.00	
	IE Return Pipe	-0.83	
RIM/FG to Outlet pipe	Unit Depth (ft)	5.00	Max depth = 5', height increments = 6"
Includes 1" grout above pipe	Return/Overflow Pipe (in)	0	Includes 1" spacing above return pipe
If using pump upstream	Operating head (ft)	4.17	Standard operating head = RIM - 9.5"

	Treatment Data		
treatment volume x 448.8 =	Treatment Flow (gpm)	87.45	
in/hr / 100 =	Media Loading Rate (gpm/sf)	0.12	
treatment flow / loading rate =	Requried Media Area (sf)	728.74	

	Cage, HGL Height		
Provding 3" Multch on top	Cage Height (ft)	4.75	
Reduced by 4" from FS	HGL Height (ft)	4.17	Set to equal cell D20 or D22
Length of cage in each row	Cage Length/ Row (ft)	22.0	

Final Checks	
Provided Media Surface Area (sf)	733.33
Discharge Rate (cfs)	0.196
Orifice Diameter per Row (in)	0.95

Based on Gravel Layer surface area
Unit discharge rate
Orifice Diameter in inches

Provided >= Required surface area, unit dimensions in good standing.

Unit Dimensions	
Length Media Row(s) (ft)	23.0
Length of Unit (ft)	27.0
Width of Unit (ft)	22.000

Length of Media row + Baffle wall
Pre-treatment + Filtration chm.
Total width of unit

Media, Gravel Volume	
WM Media Volume (cy)	61.93
Gravel Layer Volume (cy)	12.90

Feel free to fax or email proposed sizing calculations to BioClean, for assistance with sizing, compliance, and design.
Phone: 760.433.7640 |Fax: 760.433.3176
Email: Info@modularwetlands.com

BioClean
A Forterra Company

WetlandMOD - 24" Media Thickness, Volume Based

Project ID:	12627
Project Name:	Downey Industrial
City, State, ZIP:	Downey, CA
Date:	

Blue = User Input
Gray = Formula
Green = Proceed
Red = Redo

WetlandMOD Size - DMA 1	**WM-22-28-V**

	User Input Data		
LA County 24"; Bay Area 18"	Media Thickness (in)	24	
Provided by EOR/ DMA area(s)	Treatment Volume (CF)	68082	
Drain Down Time in hours	Drain Down Time (hrs)	96	
LA 5-10in/hr; Bay Area 5-12in/hr	Infiltration Rate (in/hr)	12	
Add Row(s) to change footprint	Number of Row(s)	4	
	RIM/FG elevation	0.00	
	WM IE Out	-5.00	
	IE Return Pipe	-0.83	
RIM/FG to Outlet pipe	Unit Depth (ft)	5.00	Max depth = 5', height increments = 6"
Includes 1" grout above pipe	Return/Overflow Pipe (in)	0	Includes 1" spacing above return pipe
If using pump upstream	Operating head (ft)	4.17	Standard operating head = RIM - 9.5"

	Treatment Data		
treatment volume x 448.8 =	Treatment Flow (gpm)	88.41	
in/hr / 100 =	Media Loading Rate (gpm/sf)	0.12	
treatment flow / loading rate =	Requried Media Area (sf)	736.77	

	Cage, HGL Height		
Provding 3" Multch on top	Cage Height (ft)	4.75	
Reduced by 4" from FS	HGL Height (ft)	4.17	Set to equal cell D20 or D22
Length of cage in each row	Cage Length/ Row (ft)	23.0	

Final Checks	
Provided Media Surface Area (sf)	766.67
Discharge Rate (cfs)	0.205
Orifice Diameter per Row (in)	0.97

Based on Gravel Layer surface area
Unit discharge rate
Orifice Diameter in inches

Provided >= Required surface area, unit dimensions in good standing.

Unit Dimensions	
Length Media Row(s) (ft)	24.0
Length of Unit (ft)	28.0
Width of Unit (ft)	22.000

Length of Media row + Baffle wall
Pre-treatment + Filtration chm.
Total width of unit

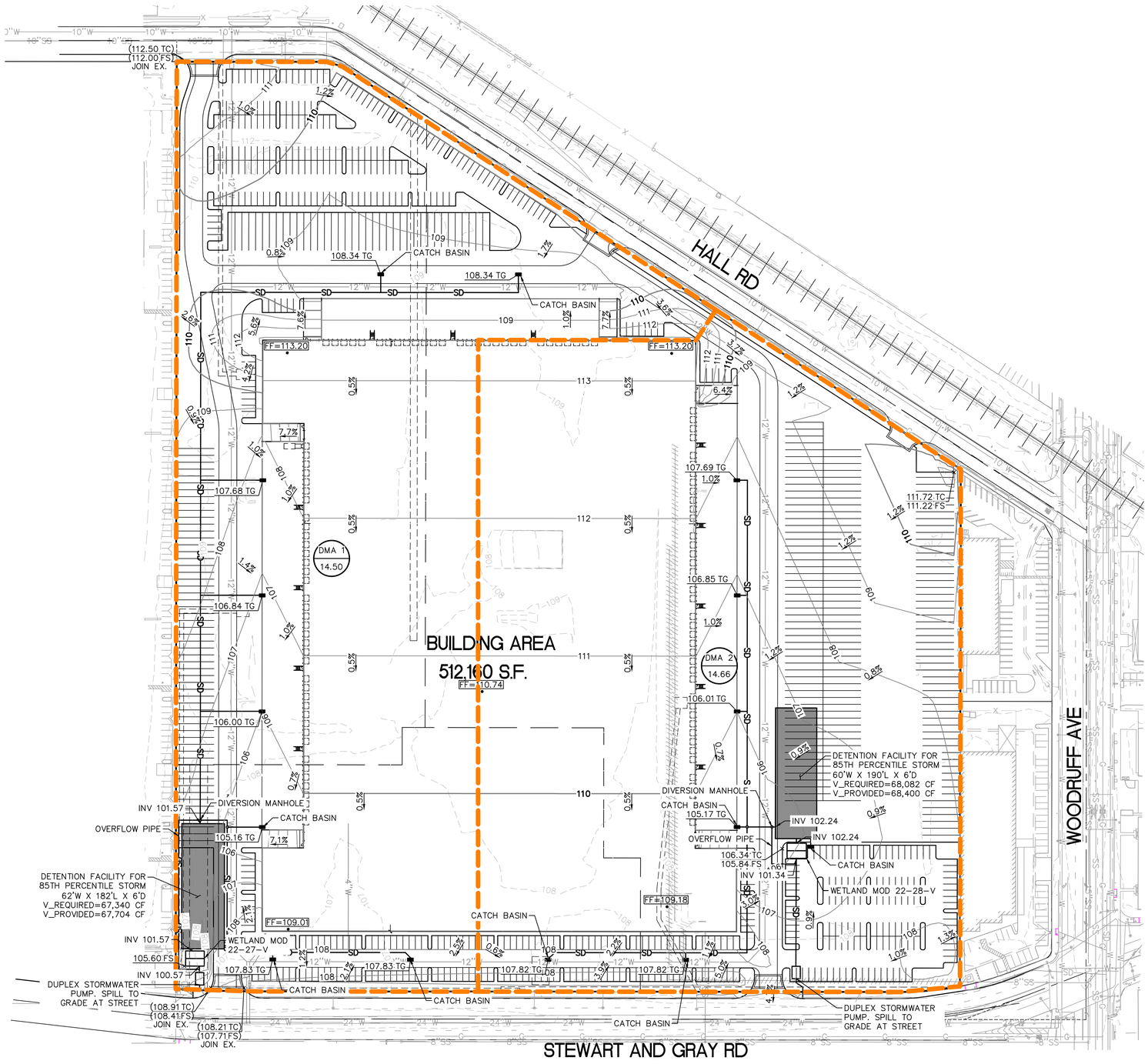
Media, Gravel Volume	
WM Media Volume (cy)	64.74
Gravel Layer Volume (cy)	13.49

Feel free to fax or email proposed sizing calculations to BioClean, for assistance with sizing, compliance, and design.
Phone: 760.433.7640 |Fax: 760.433.3176
Email: Info@modularwetlands.com

BioClean
A Forterra Company

Attachment B

LID Exhibit and BMP Details



LEGEND

- CENTER LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE / LEASE LINE
- DRAINAGE MANAGEMENT AREA BOUNDARY
- APPROXIMATE LIMITS OF DISTURBANCE
- R — PROPOSED RIDGE LINE
- GB — PROPOSED GRADE BREAK LINE
- 117.00 TC / 116.50 FS — PROPOSED SPOT ELEVATION
- (117.00 TC) / (116.50 FS) — EXISTING SPOT ELEVATION

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160
1" = 80'
WHEN PRINTED AT FULL SIZE
(24" X 36")

Drawing name: K:\ORA_LDEV\194187007 - Prologis Downey\CADD\Exhibits\Prelim Grading\Downey LID Exhibit.dwg DOWNEY LID EXHIBIT Jun 01, 2021 4:43pm by: Caroline.Armstrong
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

ISSUE	DATE	DESCRIPTION

DRAWN BY

CHECKED BY

RECOMMENDED

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER — HUNTER STARKEY — 87821 — CIVIL — STATE OF CALIFORNIA

Kimley»Horn
765 THE CITY DRIVE, SUITE 200
ORANGE, CA 92868
(714) 939-1030

PREPARED UNDER THE DIRECT SUPERVISION OF:

HUNTER STARKEY, PE R.C.E. NO. 87821 DATE: 6/1/21 EXP. 09/30/21

CITY OF DOWNEY
DEPARTMENT OF ENGINEERING
APPROVED BY:

DOWNEY CITY ENGINEER — DATE

REVIEWED AND RECOMMENDED BY: — DATE

STEWART & GRAY RD.
DOWNEY, CA 90241
PROJECT ID: XXX

CITY OF DOWNEY

PRELIMINARY LID PLAN

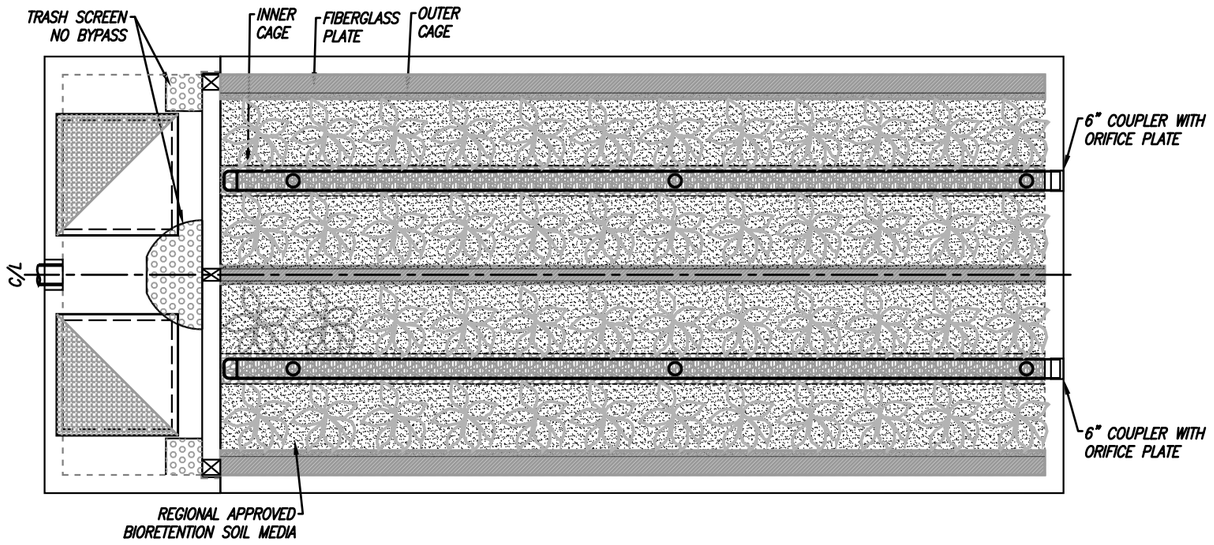
SHEET 1 OF SHEETS 1

CITY PROJECT NO.

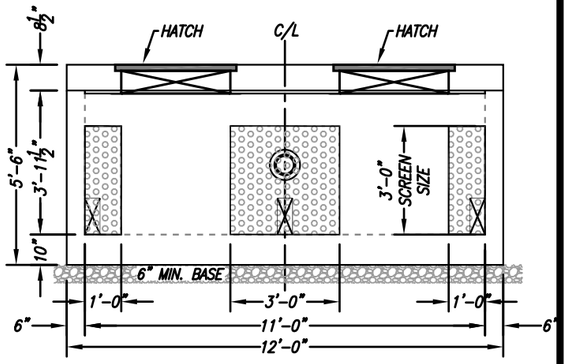
SITE SPECIFIC DATA

PROJECT ID		12627.00	
PROJECT NAME		DOWNEY INDUSTRIAL	
PROJECT LOCATION		DOWNEY, CA	
STRUCTURE ID		DMA 1	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
67340		---	
TREATMENT HGL AVAILABLE (FT)			---
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	-3.00	N/K	6"
RETURN PIPE	N/K	N/K	N/K
OUTLET PIPE	-5.00	PVC-SDR35	6"
	PRETREATMENT	BIOFILTRATION	N/A
RIM ELEVATION	0.00	0.00	N/A
SURFACE LOAD	PEDESTRIAN	OPEN PLANTER	N/A
FRAME & COVER	(2) 36" X 36"	N/A	N/A
LA COUNTY MEDIA MIX VOLUME (CY)			62.00
GRAVEL LAYER WITHIN MEDIA CHAMBER (CY)			13.00
ORIFICE DIAMETER (IN)			ø0.95"

NOTES: PRELIMINARY, NOT FOR CONSTRUCTION. TOTAL OF 2 IDENTICAL UNITS. THE UNIT LENGTH MAY INCREASE IF UNIT CONFIGURED WITH OVERFLOW/RETURN PIPE IS USED.

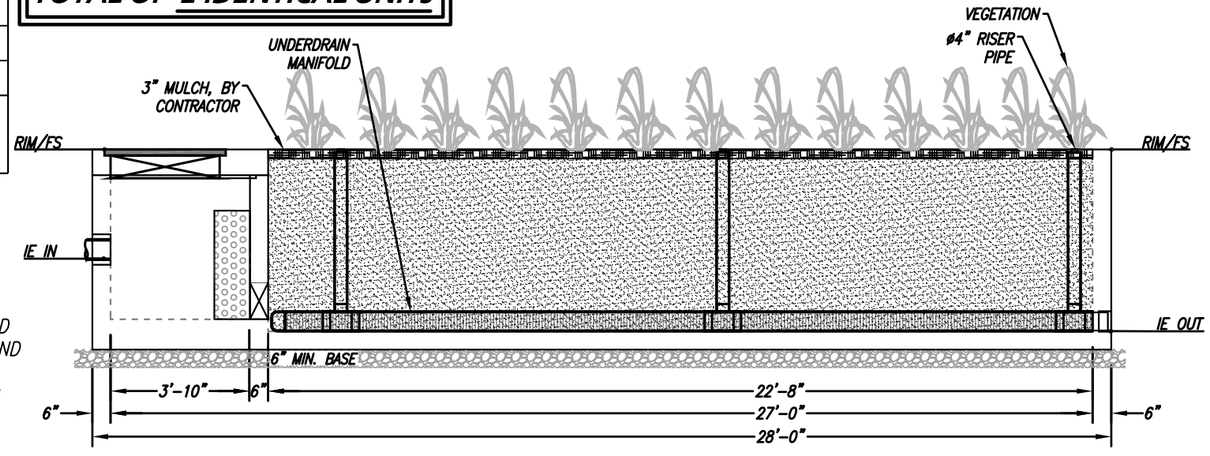


PLAN VIEW

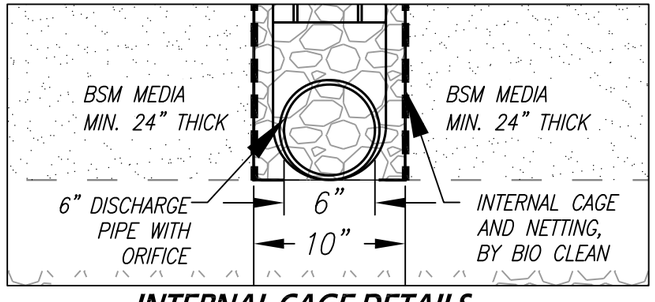


INLET VIEW

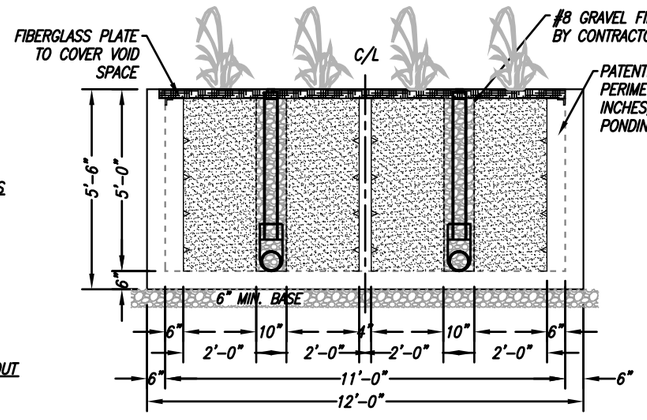
TOTAL OF 2 IDENTICAL UNITS



ELEVATION VIEW



INTERNAL CAGE DETAILS



OUTLET VIEW

REQUIRED HORIZ. MEDIA THICKNESS (INCHES)	24
TREATMENT VOLUME (CF)	67340
TARGETED DRAINDOWN DURATION (HR)	96
WETLANDMEDIA INFILTRATION RATE (IN/HR) OR	12
WETLANDMEDIA LOADING RATE (GPM/SF)	0.12
DISCHARGE RATE (CFS)	0.195
REQUIRED TOTAL MEDIA SURFACE AREA (SF)	728.74
PROVIDED TOTAL MEDIA SURFACE AREA (SF)	185.80
NUMBER OF ROW(S)	4

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262; 7,470,362; 7,674,378; 8,303,816; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

PROPRIETARY AND CONFIDENTIAL:

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MODULAR WETLANDS SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MODULAR WETLANDS SYSTEMS IS PROHIBITED.

Bio Clean
A Forterra Company

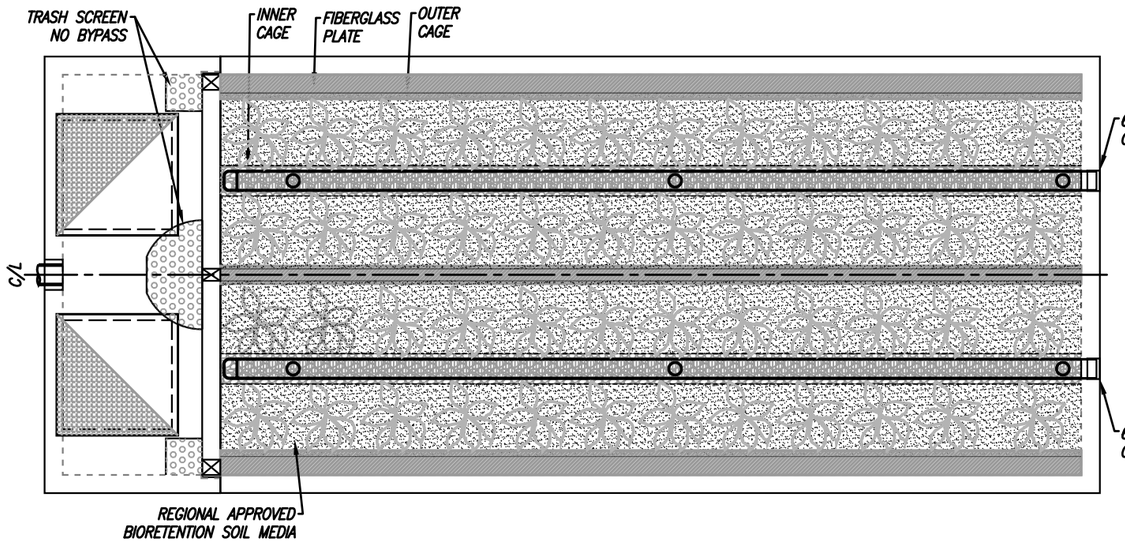
WetlandMOD-11-27-5'-0"-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

5/28/21GSINGH

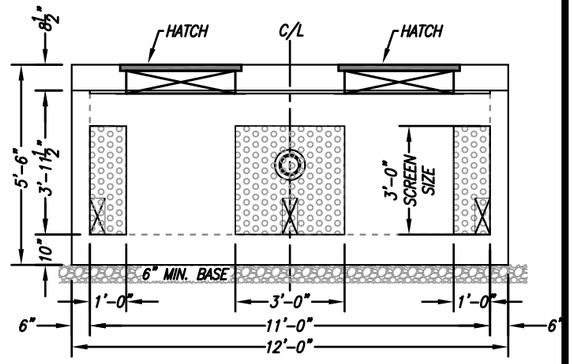
SITE SPECIFIC DATA

PROJECT ID		12627.00	
PROJECT NAME		DOWNEY INDUSTRIAL	
PROJECT LOCATION		DOWNEY, CA	
STRUCTURE ID		DMA 2	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
68082		---	
TREATMENT HGL AVAILABLE (FT)			---
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	-3.00	N/K	6"
RETURN PIPE	N/K	N/K	N/K
OUTLET PIPE	-5.00	PVC-SDR35	6"
	PRETREATMENT	BIOFILTRATION	N/A
RIM ELEVATION	0.00	0.00	N/A
SURFACE LOAD	PEDESTRIAN	OPEN PLANTER	N/A
FRAME & COVER	(2) 36" X 36"	N/A	N/A
LA COUNTY MEDIA MIX VOLUME (CY)			64.80
GRAVEL LAYER WITHIN MEDIA CHAMBER (CY)			13.50
ORIFICE DIAMETER (IN)			ø0.97"

NOTES: PRELIMINARY, NOT FOR CONSTRUCTION. TOTAL OF 2 IDENTICAL UNITS. THE UNIT LENGTH MAY INCREASE IF UNIT CONFIGURED WITH OVERFLOW/RETURN PIPE IS USED.

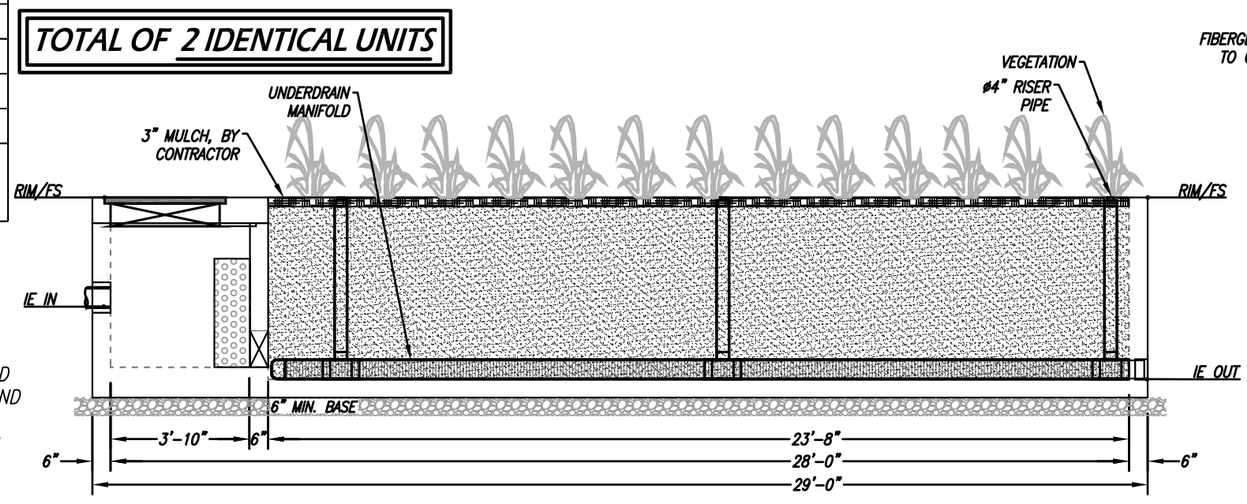


PLAN VIEW

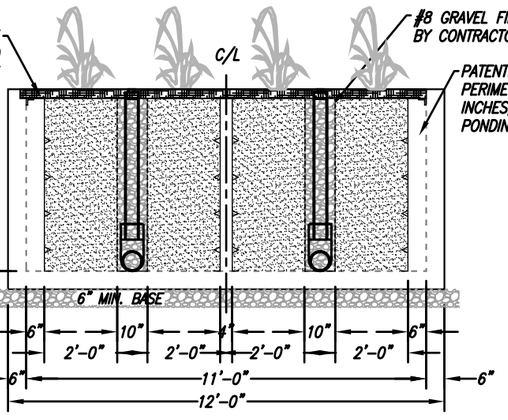


INLET VIEW

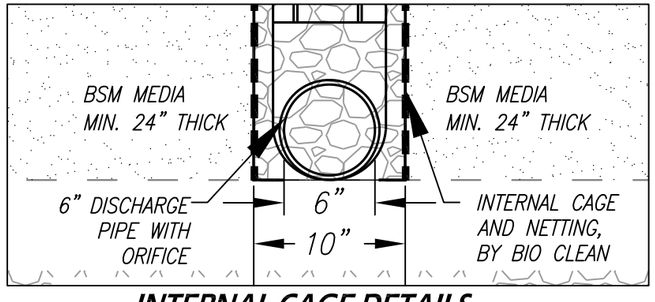
TOTAL OF 2 IDENTICAL UNITS



ELEVATION VIEW



OUTLET VIEW



INTERNAL CAGE DETAILS

REQUIRED HORIZ. MEDIA THICKNESS (INCHES)	24
TREATMENT VOLUME (CF)	68082
TARGETED DRAINDOWN DURATION (HR)	96
WETLANDMEDIA INFILTRATION RATE (IN/HR) OR	12
WETLANDMEDIA LOADING RATE (GPM/SF)	0.12
DISCHARGE RATE (CFS)	0.197
REQUIRED TOTAL MEDIA SURFACE AREA (SF)	736.77
PROVIDED TOTAL MEDIA SURFACE AREA (SF)	194.00
NUMBER OF ROW(S)	4

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262; 7,470,362; 7,674,378; 8,303,816; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

PROPRIETARY AND CONFIDENTIAL:

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MODULAR WETLANDS SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MODULAR WETLANDS SYSTEMS IS PROHIBITED.

Bio Clean
A Forterra Company

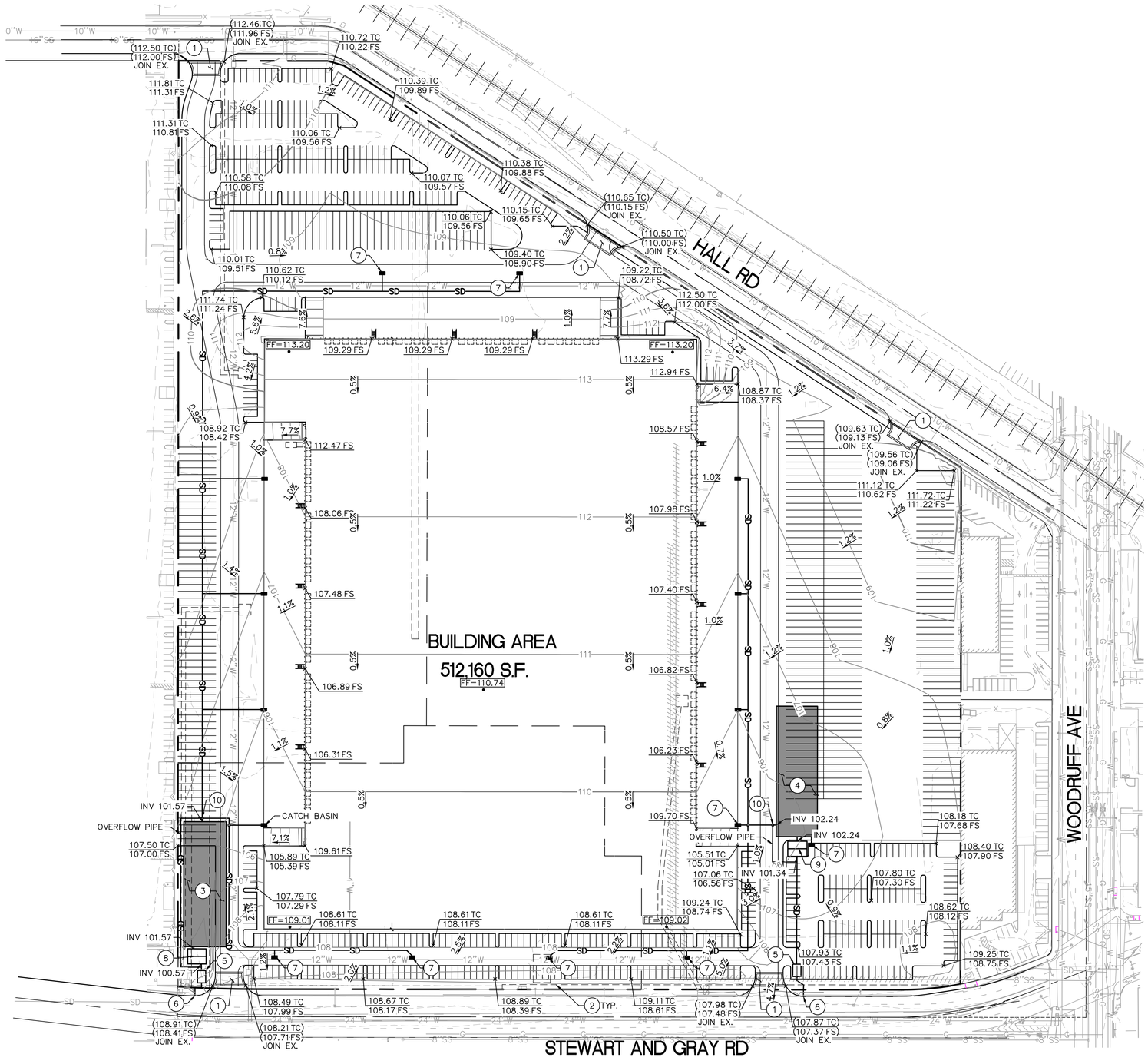
WetlandMOD-11-28-5'-0"-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

5/28/21GSINGH

Attachment C

Construction Plans

Drawing name: K:\ORA_LDEV\194187007 - Prologis Downey\CADD\PlanSheets\Entitlements\Prelim Grading.dwg PRELIMINARY GRADING PLAN (4) Jun 01, 2021 5:14pm by: Caroline.Armstrong
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- CENTER LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE / LEASE LINE
- EASEMENT LINE / SETBACK LINE
- APPROXIMATE LIMITS OF DISTURBANCE
- R — PROPOSED RIDGE LINE
- GB — PROPOSED GRADE BREAK LINE
- 117.00 TC / 116.50 FS — PROPOSED SPOT ELEVATION
- (117.00 TC) / (116.50 FS) — EXISTING SPOT ELEVATION

SITE CONSTRUCTION NOTES

1. DRIVEWAY APPROACH PER SPPWC NO. 110-2 TYPE C.
2. REMOVE AND REPLACE DAMAGED, UNEVEN, SUBSTANDARD CURB, GUTTER AND SIDEWALK AS REQUIRED BY CITY OF DOWNEY.
3. DETENTION FACILITY FOR 85TH PERCENTILE STORM
   62'W X 182'L X 6'D
   V_REQUIRED=67,340 CF
   V_PROVIDED=67,704 CF
4. DETENTION FACILITY FOR 85TH PERCENTILE STORM
   60'W X 190'L X 6'D
   V_REQUIRED=68,082 CF
   V_PROVIDED=68,400 CF
5. DUPLEX STORMWATER PUMP.
6. DISCHARGE STORMWATER THROUGH CURB BY SIDEWALK DRAIN PER SPPWC NO. 151-2
7. INSTALL JENSEN PRECAST CATCH BASIN OR APPROVED EQUAL
8. 2 WETLAND MOD SYSTEMS (11-27-V)
9. 2 WETLAND MOD SYSTEMS (11-28-V)
10. DIVERSION MANHOLE FOR OVERFLOW BYPASS

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160
1" = 80'
WHEN PRINTED AT FULL SIZE (24" X 36")

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

ISSUE	DATE	DESCRIPTION

DRAWN BY

CHECKED BY

RECOMMENDED

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER
HUNTER STARKEY
87821
CIVIL
STATE OF CALIFORNIA

Kimley»Horn
765 THE CITY DRIVE, SUITE 200
ORANGE, CA 92868
(714) 939-1030

PREPARED UNDER THE DIRECT SUPERVISION OF:

HUNTER STARKEY, PE R.C.E. NO. 87821

DATE: 6/1/21

EXP. 09/30/21

CITY OF DOWNEY
DEPARTMENT OF ENGINEERING
APPROVED BY:

DOWNEY CITY ENGINEER — DATE

REVIEWED AND RECOMMENDED BY: — DATE

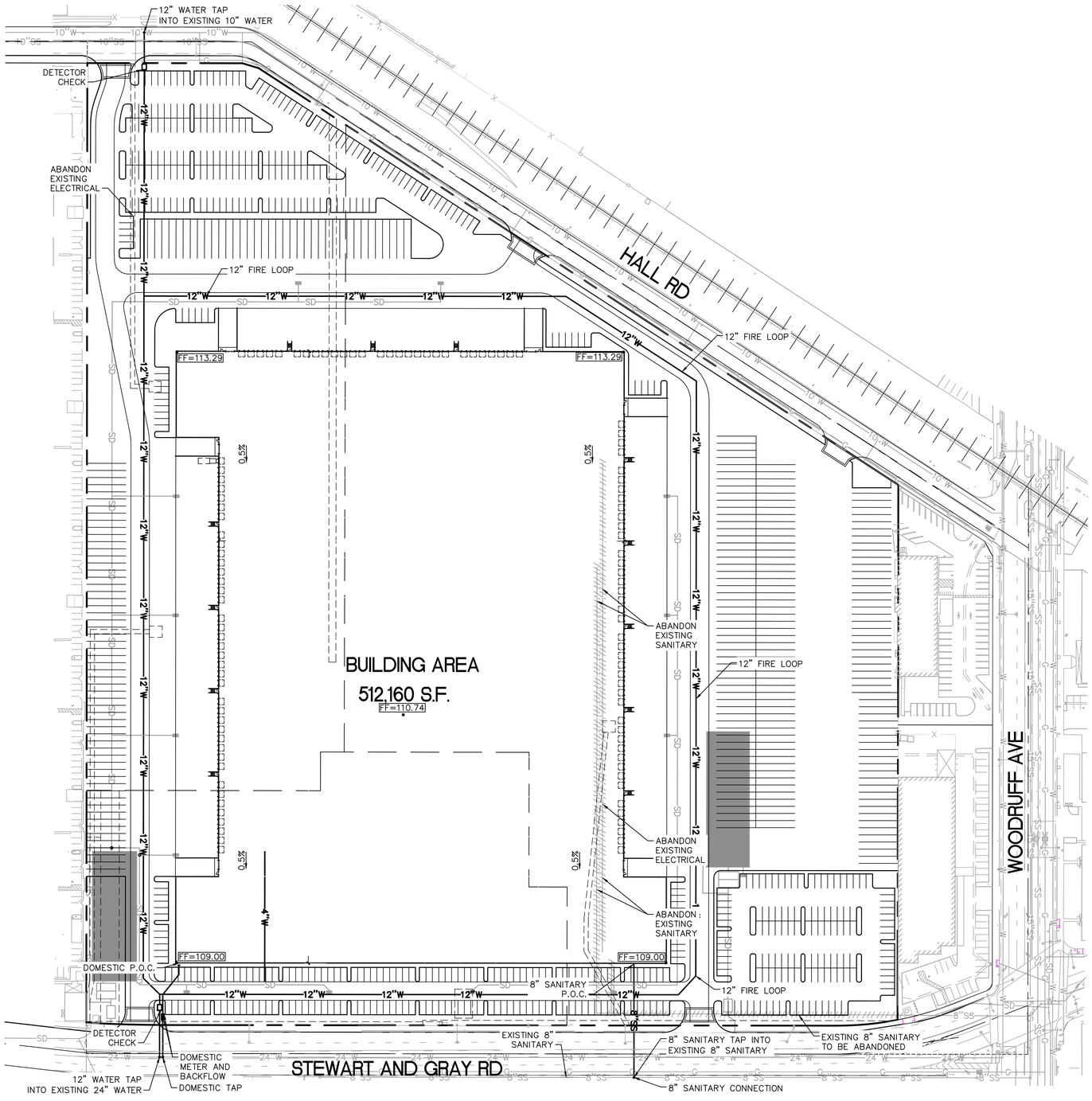
STEWART & GRAY RD.
DOWNEY, CA 90241
PROJECT ID: XXX

CITY OF DOWNEY

PRELIMINARY GRADING PLAN

SHEET 1 OF SHEETS 1

CITY PROJECT NO.



LEGEND

- CENTER LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE / LEASE LINE
- EASEMENT LINE / SETBACK LINE
- APPROXIMATE LIMITS OF DISTURBANCE
- PROPOSED RIDGE LINE
- PROPOSED GRADE BREAK LINE
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- UTILITY LINE TO BE DEMOED
- POINT OF CONNECTION (@ BLDG)
- POINT OF CONNECTION (TO EXISTING)

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160
1" = 80'
WHEN PRINTED AT FULL SIZE (24" X 36")

Drawing name: K:\ORA_LDEV\194187007 - Proloais Downey\CADD\PlanSheets\Entitlements\Prelim Utility Plan.dwg PRELIMINARY UTILITY PLAN (4) Jun 01, 2021 5:05pm by: Caroline.Armstrong
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

ISSUE	DATE	DESCRIPTION

DRAWN BY
CHECKED BY
RECOMMENDED

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER — HUNTER STARKEY — No. 87821 — CIVIL — STATE OF CALIFORNIA

Kimley»Horn
765 THE CITY DRIVE, SUITE 200
ORANGE, CA 92868
(714) 939-1030

PREPARED UNDER THE DIRECT SUPERVISION OF:
HUNTER STARKEY, PE R.C.E. NO. 87821
DATE: 6/1/21 EXP. 09/30/21

CITY OF DOWNEY
DEPARTMENT OF ENGINEERING
APPROVED BY:
DOWNEY CITY ENGINEER — DATE
REVIEWED AND RECOMMENDED BY: — DATE

STEWART & GRAY RD.
DOWNEY, CA 90241
PROJECT ID: XXX

CITY OF DOWNEY

PRELIMINARY UTILITY PLAN

SHEET 1 OF SHEETS 1
CITY PROJECT NO.

Attachment D

Master Covenant Agreement (MCA)

(Example)

Attachment E

Operations and Maintenance (O&M) Plan

Operations and Maintenance (O&M) Plan

for

Prologis Industry Redevelopment

9301 Stewart and Gray Road

Downey, CA 90241

Operations and Maintenance Plan

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance, and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Non-Structural Source Control BMPs			
Yes	**Education for Property Owners, Tenants and Occupants** Educational material shall be provided to all employees and tenants.	Within 30 days of tenant occupancy and annually thereafter.	Owner
Yes	**Activity Restriction** The owner shall develop activity restrictions to minimize the threat of hazardous waste or contamination into the storm drainage system. Car washing is not allowed on-site at any time.	Ongoing; Yearly for all employees and within 30 days of hire date for new employees.	Owner
Yes	**Common Area Landscape Management** Training on landscape management consistent with County Water Conservation Resolution or City equivalent, plus Management Guidelines for Fertilizers (DAMP Section 5.5) shall be conducted for all new field landscape maintenance personnel.	Twice Monthly or according to an established maintenance schedule.	Owner
Yes	**BMP Maintenance** Maintenance of BMPs implemented at the project site shall be performed at the frequency prescribed in this WQMP.	Twice Monthly or according to an established maintenance schedule	Owner
No	**Title 22 CCR Compliance** N/A	N/A	N/A
No	**Spill Contingency Plan** N/A	N/A	N/A
No	**Underground Storage Tank Compliance** N/A	N/A	N/A
No	**Hazardous Materials Disclosure Compliance** N/A	N/A	N/A
No	**Uniform Fire Code Implementation** N/A	N/A	N/A

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance, and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Yes	**Common Area Litter Control** Litter patrol, violations investigation, reporting and other litter control activities shall be performed in conjunction with maintenance activities.	Weekly	Owner
Yes	**Employee Training** Education programs shall be implemented as they apply to future employees and training of current employees.	Ongoing; Yearly for all employees and within 30 days of hire date for new employees.	Owner
No	**Housekeeping of Loading Docks** N/A	N/A	N/A
Yes	**Common Area Catch Basin Inspection** Litter and debris removal, illicit discharge violations investigation and reporting shall be performed in conjunction with maintenance activities.	Twice a month to remove debris and after every major storm event	Owner
Yes	**Street Sweeping Private Streets and Parking Lots** Private streets and parking area within the project shall be swept at a minimum frequency of once a month.	Monthly	Owner
No	**Retail Gasoline Outlets** N/A	N/A	N/A
Structural Source Control BMPs			
Yes	**Provide Storm Drain System Stenciling and Signage** All proposed inlets shall be marked with the appropriate "No Dumping. Drains to Ocean." Stencil. The stencils must be repainted when they become illegible, but at a minimum once every five years. Inspect stenciling for legibility no later than the beginning of the rainy season on October 1st each year. Stenciling must be re-stenciled to maintain legibility as necessary and when deemed necessary by the local inspecting agency	Yearly	Owner

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance, and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Yes	**Design and Construct Outdoor Material Storage Areas to Reduce Pollutant Introduction** Proper design of outdoor storage areas for materials reduces opportunity for toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to enter the stormwater conveyance system. Materials may be in the form of raw products, by-products, finished products, and waste products. The type of pollutants associated with the materials will vary depending on the type of commercial or industrial activity.	Initial Design	Owner
Yes	**Design and Construct Trash and Waste Storage Areas to Reduce Pollutant Introduction** The trash and waste storage areas will be inspected in conjunction with Litter Control on a weekly basis. The area will be inspected for loose debris and dumpster capacity. If dumpsters are overflowing more frequent pick-ups shall be arranged.	Initial Design, Weekly Inspections	Owner
Yes	**Use Efficient Irrigation Systems & Landscape Design** Verify that landscape design continues to function properly by correctly adjusting to eliminate overspray to hardscape areas, and to verify that irrigation timing and cycle lengths are adjusted in accordance with water demands, given time of year, and day or night time temperatures.	Twice Monthly or according to an established maintenance schedule.	Owner
No	**Protect Slopes and Channels and Provide Energy Dissipation** N/A	N/A	N/A
No	**Loading Docks** N/A	N/A	N/A
No	**Maintenance Bays** N/A	N/A	N/A
No	**Vehicle Wash Areas** N/A	N/A	N/A

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance, and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
No	**Outdoor Processing Areas** N/A	N/A	N/A
No	**Equipment Wash Areas** N/A	N/A	N/A
No	**Fueling Areas** N/A	N/A	N/A
No	**Hillside Landscaping** N/A	N/A	N/A
No	**Wash Water Controls for Food Preparation Areas** N/A	N/A	N/A
No	**Community Car Wash Racks** N/A	N/A	N/A
Treatment Control BMPs			
Yes	**WetlandMOD** The WetlandMOD pre-filter, separation chamber, and Biofiltration media are all designed to allow for the use of vacuum removal of captured pollutants and spent filter media by centrifugal compressor vacuum units without causing damage to the filter, or during normal cleaning and maintenance. Filters and chambers can be cleaned from the finished surface through a standard manhole, hatch, or grate access. Refer to the following BioClean WetlandMOD O&M plan.	Twice Monthly or according to an established maintenance schedule	Owner
Yes	**Bioclean Detention Vault** The underground detention, retention, or infiltration system can be inspected through visual observation without entry into the system. All necessary pre-inspection steps must be carried out before inspection occurs, especially traffic control and other safety measures to protect the inspector and nearby pedestrians from any dangers associated with an open access hatch or manhole. Refer to the following BioClean Detention Vault O&M plan.	Twice Monthly or according to an established maintenance schedule	Owner

Required Permits

This section must list any permits required for the implementation, operation, and maintenance of the BMPs. Possible examples are:

- Permits for connection to sanitary sewer
- Permits from California Department of Fish and Game
- Encroachment permits

If no permits are required, a statement to that effect should be made.

Forms to Record BMP Implementation, Maintenance, and Inspection

The form that will be used to record implementation, maintenance, and inspection of BMPs is attached.

RECORD OF BMP IMPLEMENTATION, MAINTENANCE, AND INSPECTION

Today's Date: _____

Name of Person Performing Activity (Printed): _____

Signature: _____

BMP Name (As Shown in O&M Plan)	Brief Description of Implementation, Maintenance, and Inspection Activity Performed

Bio Clean
A Forterra Company

Maintenance Overview –

A. Every installed WetlandMOD unit is to be maintained by the Supplier, or a Supplier approved contractor. The cost of this service varies among providers.

B. The WetlandMOD is a multi-stage self-contained treatment train for stormwater treatment. Each stage protects subsequent stages from clogging. Stages include: screening, separation, and Biofiltration. The biofiltration stage contains various types of vegetation which will require annual evaluation and trimming.

1. Clean Bio Clean® Pre-Filter Screen – Screening is provided by well proven continuous modular screen filter. The filter removes gross solids, including litter, and sediments greater than 5 mm. This procedure is easily done by hand or with a small industrial vacuum device.

2. Clean Separation (sediment) Chamber – separation occurs in the pre-treatment chamber. This chamber targets TSS, and particulate metals and nutrients. This procedure can be performed with a standard vacuum truck. This chamber is located directly under the manhole, hatch, or grate access cover.

3. Trim Vegetation – The system utilizes multiple plants in the biofiltration chamber to provide enhanced treatment. The vegetation will need to be maintained (trimmed) as needed. This can be done as part of the project normal landscape maintenance. NO FERTILIZER SHALL BE USED IN THIS CHAMBER.

4. Evaluate Biofiltration Media Flow Hydraulic Conductivity – The system's flow can be assessed from the discharge. This should be done during a rain event. By viewing into the discharge pipe, the flow out of the system can be observed. If little to no flow is observed, this is a sign of potential Biofiltration media maintenance needs.

5. Biofiltration Media Replacement –This filter contains a mix that supports abundant plant life. Replacement of the media is simple. Removal of spent media can be done with a shovel and a vacuum truck.

C. The WetlandMOD pre-filter, separation chamber, and Biofiltration media are all designed to allow for the use of vacuum removal of captured pollutants and spent filter media by centrifugal compressor vacuum units without causing damage to the filter, or during normal cleaning and maintenance. Filters and chambers can be cleaned from the finished surface through a standard manhole, hatch, or grate access.

Maintenance Procedures –

1. Clean Bio Clean® Pre-Filter – Bio Clean recommends the **pre-filter** be inspected and cleaned a minimum of once every six months. The procedure is easily done with the use of any standard vacuum truck. *This procedure takes approximately 15 minutes.*

1. Remove grate, manhole, or hatch to gain access to the pre-filter insert. Where possible, the maintenance should be performed from the ground surface. Note: entry into an underground stormwater vault such as an inlet vault may require certification in confined space training.
2. Remove all trash, debris, organics, and sediments collected by the pre-filter. Removal of the trash and debris can be done manually or with the use of a vacuum truck. The hose of the vacuum truck will not damage the screen of the pre-filter.
3. Transport all debris, trash, organics and sediments to an approved facility for disposal in accordance with local and state requirements. Hazardous material can only be handled by a certified hazardous waste trained person (minimum of OSHA 24-hour hazardous waste worker (hazwoper) training).

2. Clean Separation (sediment) Chamber – Bio Clean recommends the **separation chamber** be inspected and cleaned a minimum of once a year. The procedure is easily done with the use of any standard vacuum truck. *This procedure takes approximately 30 minutes.*

1. Remove grate, manhole, or hatch to gain access to the separation chamber.
2. Where possible, the maintenance should be performed from the ground surface. Note: entry into an underground stormwater vault such as an inlet vault may require certification in confined space training.
3. With a pressure washer, spray down pollutants accumulated on walls and pre-filters.
4. Vacuum out separation chamber and remove all accumulated debris and sediments.
5. Replace grate, manhole, or hatch cover.
6. Transport all debris, trash, organics and sediments to approved facility for disposal in accordance with local and state requirements.

3. Trim Vegetation – Bio Clean recommends the plants/vegetation be inspected and maintained a minimum of once a year. It is also recommended that the plants receive the same care as other landscaped areas. Note: No fertilizer is to be used on this area. *Trimming of vegetation takes approximately 15 minutes.*

4. Evaluate Biofiltration Media Flow Hydraulic Conductivity – Bio Clean recommends system flow be inspected and observed a minimum of once a year. This needs to be done during a rain event. *Inspection and Observation takes approximately 5 minutes.*

1. Observe discharge out of system.
2. Observe the level of flow from the bottom of the pipe.
3. If flow is steady and high, the system is operating normally.
4. If little or no flow is observed exiting the discharge pipe, possible maintenance to the Biofiltration media may be needed. Contact Bio Clean for further assistance.

5. Biofiltration Media Replacement – Bio Clean recommends the Biofiltration media be replaced a minimum of once every 20 years. *Inspection takes approximately 15 minutes. Replacement of rock media takes approximately 6 hours and requires a vacuum truck.*

1. Remove plants from the Biofiltration chamber.
2. Use a vacuum truck or shovel to remove all wetland media.
3. Spray down the walls and floor of the chamber and vacuum out any accumulated pollutants.
4. Spray down perforated piping and netting of flow matrix and the inflow and outflow end to remove any accumulated pollutants.
5. Vacuum out any standing water from the media removal and ensure the chamber is clean.
6. Use a small backhoe to fill chamber with new media. Call Bio Clean for media delivery information.
7. Plant new vegetation in the same configuration and quantity as old vegetation.
8. Spray down the plants and media with water to saturate.
9. Continue supplemental irrigation (spray or drip) for at least 90 days.

6. Other Maintenance Notes –

1. Following maintenance and/or inspection, the maintenance operator shall prepare a maintenance/inspection record. The record shall include any maintenance activities performed, amount and description of debris collected, and condition of the system and its various filter mechanism.
2. The owner shall retain the maintenance/inspection record for a minimum of five years from the date of maintenance. These records shall be made available to the governing municipality for inspection upon request at any time.
3. Any person performing maintenance activities must have completed a minimum of OSHA 24-hour hazardous waste worker (hazwoper) training.
4. Remove access manhole lid or grate to gain access to filter screens and sediment chambers. Where possible, the maintenance should be performed

from the ground surface. Note: entry into an underground stormwater vault such as an inlet vault requires certification in confined space training.

5. Transport all debris, trash, organics and sediments to approved facility for disposal in accordance with local and state requirements.
6. The hydrocarbon boom is classified as hazardous material and will have to be picked up and disposed of as hazardous waste. Hazardous material can only be handled by a certified hazardous waste trained person (minimum 24-hour hazwoper).

Inspection Form

Modular Wetland System, Inc.
P. 760.433-7640
F. 760-433-3176
E. Info@modularwetlands.com

www.modularwetlands.com

Inspection Report
Modular Wetlands System

Project Name _____

Project Address _____
(city) (Zip Code)

Owner / Management Company _____

Contact _____ Phone ( ) –

Inspector Name _____ Date ____/____/____ Time _____ AM / PM

For Office Use Only
(Reviewed By)
(Date)
Office personnel to complete section to the left.

Type of Inspection ☐ Routine ☐ Follow Up ☐ Complaint ☐ Storm Storm Event in Last 72-hours? ☐ No ☐ Yes

Weather Condition _____ Additional Notes _____

Inspection Checklist

Modular Wetland System Type (Curb, Grate or UG Vault): _____ Size (22', 14' or etc.): _____

Structural Integrity:	**Yes**	**No**	**Comments**
Damage to pre-treatment access cover (manhole cover/grate) or cannot be opened using normal lifting pressure?			
Damage to discharge chamber access cover (manhole cover/grate) or cannot be opened using normal lifting pressure?			
Does the MWS unit show signs of structural deterioration (cracks in the wall, damage to frame)?			
Is the inlet/outlet pipe or drain down pipe damaged or otherwise not functioning properly?			
Working Condition:			
Is there evidence of illicit discharge or excessive oil, grease, or other automobile fluids entering and clogging the unit?			
Is there standing water in inappropriate areas after a dry period?			
Is the filter insert (if applicable) at capacity and/or is there an accumulation of debris/trash on the shelf system?			
Does the depth of sediment/trash/debris suggest a blockage of the inflow pipe, bypass or cartridge filter? If yes, specify which one in the comments section. Note depth of accumulation in in pre-treatment chamber.			Depth:
Does the cartridge filter media need replacement in pre-treatment chamber and/or discharge chamber?			Chamber:
Any signs of improper functioning in the discharge chamber? Note issues in comments section.			
Other Inspection Items:			
Is there an accumulation of sediment/trash/debris in the wetland media (if applicable)?			
Is it evident that the plants are alive and healthy (if applicable)? Please note Plant Information below.			
Is there a septic or foul odor coming from inside the system?			

Waste:	**Yes**	**No**
Sediment / Silt / Clay		
Trash / Bags / Bottles		
Green Waste / Leaves / Foliage		

Recommended Maintenance	
No Cleaning Needed	
Schedule Maintenance as Planned	
Needs Immediate Maintenance	

Plant Information	
Damage to Plants	
Plant Replacement	
Plant Trimming	

Additional Notes: _____

2972 San Luis Rey Road, Oceanside, CA 92058 P (760) 433-7640 F (760) 433-3176

Maintenance Report

Modular Wetland System, Inc.
P. 760.433-7640
F. 760-433-3176
E. Info@modularwetlands.com

www.modularwetlands.com

Cleaning and Maintenance Report
Modular Wetlands System

Project Name _____

Project Address _____
(city) (Zip Code)

Owner / Management Company _____

Contact _____ Phone ( ) –

Inspector Name _____ Date ____/____/____ Time _____ AM / PM

Type of Inspection ☐ Routine ☐ Follow Up ☐ Complaint ☐ Storm Storm Event in Last 72-hours? ☐ No ☐ Yes

Weather Condition _____ Additional Notes _____

For Office Use Only
(Reviewed By)
(Date)
Office personnel to complete section to the left.

Site Map #	GPS Coordinates of Insert	Manufacturer / Description / Sizing	Trash Accumulation	Foliage Accumulation	Sediment Accumulation	Total Debris Accumulation	Condition of Media 25/50/75/100 (will be changed @ 75%)	Operational Per Manufactures' Specifications (If not, why?)
	Lat: Long:	MWS Catch Basins						
		MWS Sedimentation Basin						
		Media Filter Condition						
		Plant Condition						
		Drain Down Media Condition						
		Discharge Chamber Condition						
		Drain Down Pipe Condition						
		Inlet and Outlet Pipe Condition						

Comments:

2972 San Luis Rey Road, Oceanside, CA 92058 P. 760.433.7640 F. 760.433.3176

Attachment F

Geotechnical Investigation

Will provide once received

Attachment G

Educational Materials

Internet Address (URL) • HTTP://www.epa.gov
Recycled/Recyclable • Printed with Vegetable
Oil Based Inks on 100% Postconsumer
Process Chlorine Free Recycled Paper

EPA 833-B-03-002

January 2003

A Citizen's Guide to Understanding Stormwater

After the Storm

For more information contact:

or visit
www.epa.gov/npdes/stormwater
www.epa.gov/nps

What is stormwater runoff?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater from naturally soaking into the ground.

Why is stormwater runoff a problem?

Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water.

The effects of pollution

Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.

- Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.
- Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.

- Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.
- Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.
- Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.

Stormwater Pollution Solutions

Education is essential to changing people's behavior. Signs and markers near storm drains warn residents that pollutants entering the drains will be carried untreated into a local waterbody.

Residential

Recycle or properly dispose of household products that contain chemicals, such as insecticides, pesticides, paint, solvents, and used motor oil and other auto fluids. Don't pour them onto the ground or into storm drains.

Lawn care

Excess fertilizers and pesticides applied to lawns and gardens wash off and pollute streams. In addition, yard clippings and leaves can wash into storm drains and contribute nutrients and organic matter to streams.

- Don't overwater your lawn. Consider using a soaker hose instead of a sprinkler.
- Use pesticides and fertilizers sparingly. When use is necessary, use these chemicals in the recommended amounts. Use organic mulch or safer pest control methods whenever possible.
- Compost or mulch yard waste. Don't leave it in the street or sweep it into storm drains or streams.
- Cover piles of dirt or mulch being used in landscaping projects.

Auto care

Washing your car and degreasing auto parts at home can send detergents and other contaminants through the storm sewer system. Dumping automotive fluids into storm drains has the same result as dumping the materials directly into a waterbody.

- Use a commercial car wash that treats or recycles its wastewater, or wash your car on your yard so the water infiltrates into the ground.
- Repair leaks and dispose of used auto fluids and batteries at designated drop-off or recycling locations.

Septic systems

Leaking and poorly maintained septic systems release nutrients and pathogens (bacteria and viruses) that can be picked up by stormwater and discharged into nearby waterbodies. Pathogens can cause public health problems and environmental concerns.

- Inspect your system every 3 years and pump your tank as necessary (every 3 to 5 years).
- Don't dispose of household hazardous waste in sinks or toilets.

Pet waste

Pet waste can be a major source of bacteria and excess nutrients in local waters.

- When walking your pet, remember to pick up the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.

Residential landscaping

Permeable Pavement—Traditional concrete and asphalt don't allow water to soak into the ground. Instead these surfaces rely on storm drains to divert unwanted water. Permeable pavement systems allow rain and snowmelt to soak through, decreasing stormwater runoff.

Rain Barrels—You can collect rainwater from rooftops in mosquito-proof containers. The water can be used later on lawn or garden areas.

Rain Gardens and Grassy Swales—Specially designed areas planted with native plants can provide natural places for rainwater to collect and soak into the ground. Rain from rooftop areas or paved areas can be diverted into these areas rather than into storm drains.

Vegetated Filter Strips—Filter strips are areas of native grass or plants created along roadways or streams. They trap the pollutants stormwater picks up as it flows across driveways and streets.

Commercial

Dirt, oil, and debris that collect in parking lots and paved areas can be washed into the storm sewer system and eventually enter local waterbodies.

- Sweep up litter and debris from sidewalks, driveways and parking lots, especially around storm drains.
- Cover grease storage and dumpsters and keep them clean to avoid leaks.
- Report any chemical spill to the local hazardous waste cleanup team. They'll know the best way to keep spills from harming the environment.

Construction

Erosion controls that aren't maintained can cause excessive amounts of sediment and debris to be carried into the stormwater system. Construction vehicles can leak fuel, oil, and other harmful fluids that can be picked up by stormwater and deposited into local waterbodies.

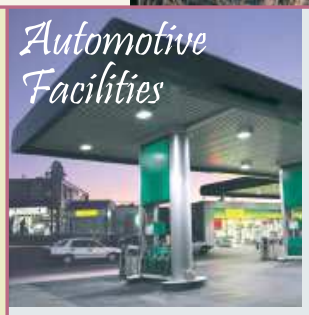
- Divert stormwater away from disturbed or exposed areas of the construction site.
- Install silt fences, vehicle mud removal areas, vegetative cover, and other sediment and erosion controls and properly maintain them, especially after rainstorms.
- Prevent soil erosion by minimizing disturbed areas during construction projects, and seed and mulch bare areas as soon as possible.

Agriculture

Lack of vegetation on streambanks can lead to erosion. Overgrazed pastures can also contribute excessive amounts of sediment to local waterbodies. Excess fertilizers and pesticides can poison aquatic animals and lead to destructive algae blooms. Livestock in streams can contaminate waterways with bacteria, making them unsafe for human contact.

- Keep livestock away from streambanks and provide them a water source away from waterbodies.
- Store and apply manure away from waterbodies and in accordance with a nutrient management plan.
- Vegetate riparian areas along waterways.
- Rotate animal grazing to prevent soil erosion in fields.
- Apply fertilizers and pesticides according to label instructions to save money and minimize pollution.

Automotive Facilities



Uncovered fueling stations allow spills to be washed into storm drains. Cars waiting to be repaired can leak fuel, oil, and other harmful fluids that can be picked up by stormwater.

- Clean up spills immediately and properly dispose of cleanup materials.
- Provide cover over fueling stations and design or retrofit facilities for spill containment.
- Properly maintain fleet vehicles to prevent oil, gas, and other discharges from being washed into local waterbodies.
- Install and maintain oil/water separators.

Forestry

Improperly managed logging operations can result in erosion and sedimentation.

- Conduct preharvest planning to prevent erosion and lower costs.
- Use logging methods and equipment that minimize soil disturbance.
- Plan and design skid trails, yard areas, and truck access roads to minimize stream crossings and avoid disturbing the forest floor.
- Construct stream crossings so that they minimize erosion and physical changes to streams.
- Expedite revegetation of cleared areas.

Stormwater Pollution

What you should know for...

Industrial & Commercial Facilities

Best Management Practices (BMPS) for:

- Industrial Facilities
- Commercial Facilities

Riverside County Stormwater Program Members

City of Banning
(951) 922-3105

City of Beaumont
(951) 769-8520

City of Calimesa
(909) 795-9801

City of Canyon Lake
(951) 244-2955

City of Cathedral City
(760) 770-0340

City of Coachella
(760) 398-3502

City of Corona
(951) 736-2447

City of Desert Hot Springs
(760) 329-6411

City of Eastvale
(951) 361-0900

City of Hemet
(951) 765-2300

City of Indian Wells
(760) 346-2489

City of Indio
(760) 391-4000

City of Jurupa Valley
(951) 332-6464

City of Lake Elsinore
(951) 674-3124

City of La Quinta
(760) 777-7000

City of Menifee
(951) 672-6777

City of Moreno Valley
(951) 413-3000

City of Murrieta
(951) 304-2489

City of Norco
(951) 270-5607

City of Palm Desert
(760) 346-0611

City of Palm Springs
(760) 323-8299

City of Perris
(951) 943-6100

City of Rancho Mirage
(760) 324-4511

City of Riverside
(951) 826-5311

City of San Jacinto
(951) 487-7330

City of Temecula
(951) 694-6444

City of Wildomar
(951) 677-7751

Coachella Valley Water District
(760) 398-2651

County of Riverside
(951) 955-1000

Riverside County Flood Control District
(951) 955-1200

YOU can prevent Stormwater Pollution following these practices...

Industrial and Commercial Facilities

The Riverside County Stormwater Program has identified a number of Best Management Practices (BMPs) for Industrial and Commercial Facilities. These BMPs control and reduce stormwater pollutants from reaching our storm drain system and ultimately our local water bodies. City and County ordinances require businesses to use these BMPs to protect our water quality. Local cities and the County are required to verify implementation of these BMPs by performing regular facility inspections.

Prohibited Discharges

Discontinue all non-stormwater discharges to the storm drain system. It is *prohibited* to discharge any chemicals, paints, debris, wastes or wastewater into the gutter, street or storm drain.

Outdoor Storage BMPs

- Install covers and secondary containment areas for all hazardous materials and wastes stored outdoors in accordance with County and/or City standards.
- Keep all temporary waste containers covered, at all times when not in use.
- Sweep outdoor areas instead of using a hose or pressure washer.
- Move all process operations including vehicle/equipment maintenance inside of the building or under a covered and contained area.
- Wash equipment and vehicles in a contained and covered wash bay which is closed-loop or connected to a clarifier sized to local standards and discharged to a sanitary sewer or take them to a commercial car wash.

Spills and Clean Up BMPs

- Keep the work site clean and orderly. Remove debris in a timely fashion. Sweep up the area.
- Clean up spills immediately when they occur, using dry clean up methods such as absorbent materials or sweep followed by proper disposal of materials.
- Always have a spill kit available near chemical loading dock doors and vehicle maintenance and fueling areas.
- Follow your Business Emergency Plan, as filed with the local Fire Department.
- Report all prohibited discharges and non-implementation of BMPs to your local Stormwater Coordinator as listed on the back of this pamphlet.

- Report hazardous materials spills to 951-358-5055 or call after hours to 951-782-2973 or, if an emergency, call the Fire Department's Haz Mat Team at 911.

Plastic Manufacturing Facilities BMPs

AB 258 requires plastic product manufacturers to use BMPs, such as safe storage and clean-up procedures to prevent plastic pellets (nurdles) from entering the waterway. The plastic pellets are released into the environment during transporting, packaging and processing and migrate to waterways through the storm drain system. AB 258 will help protect fish and wildlife from the hazards of plastic pollution.

Training BMPs

As prescribed by your City and County Stormwater Ordinance(s), train employees in spill procedures and prohibit non-stormwater discharges to the storm drain system. Applicable BMP examples can be found at www.cabmphandbooks.com.

Permitting

Stormwater discharges associated with specific categories for industrial facilities are regulated by the State Water Resources Control Board through an Industrial Stormwater General Permit. A copy of this General Permit and application forms are available at: www.waterboards.ca.gov, select stormwater then the industrial quick link.

To report illegal dumping or for more information on stormwater pollution prevention call: 1-800-506-2555 or e-mail us at: fcnpdes@rcflood.org.

Landscaping and garden maintenance activities can be major contributors to water pollution. Soils, yard wastes, over-watering and garden chemicals become part of the urban runoff mix that winds its way through streets, gutters and storm drains before entering lakes, rivers, streams, etc. Urban runoff pollution contaminates water and harms aquatic life!

In Riverside County, report illegal discharges into the storm drain, call
1-800-506-2555
"Only Rain Down the Storm Drain"

Important Links:

Riverside County Household Hazardous Waste Collection Information
1-800-304-2226 or www.rivcowm.org

Riverside County Backyard Composting Program
1-800-366-SAVE

Integrated Pest Management (IPM) Solutions
www.ipm.ucdavis.edu

California Master Gardener Programs
www.mastergardeners.org
www.camastergardeners.ucdavis.edu

California Native Plant Society
www.cnps.org

The Riverside County "Only Rain Down the Storm Drain" Pollution Prevention Program gratefully acknowledges Orange County's Storm Water Program for their contribution to this brochure.

...Only Rain Down ...the Storm Drain

What you should know for... Landscape and Gardening

Best Management tips for:

- Professionals
- Novices
- Landscapers
- Gardeners
- Cultivators

Tips for Landscape & Gardening

This brochure will help you to get the most of your lawn and gardening efforts and keep our waterways clean. Clean waterways provide recreation, establish thriving fish habitats, secure safe sanctuaries for wildlife, and add beauty to our communities. NEVER allow gardening products or waste water to enter the street, gutter or storm drain.

General Landscaping Tips

- Protect stockpiles and materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Prevent erosion of slopes by planting fast-growing, dense ground covering plants. These will shield and bind the soil.

- Plant native vegetation to reduce the amount of water, fertilizers and pesticides applied to the landscape.
- Never apply pesticides or fertilizers when rain is predicted within the next 48 hours.

Garden & Lawn Maintenance

- Do not overwater. Use irrigation practices such as drip irrigation, soaker hoses or micro-spray systems. Periodically inspect and fix leaks and misdirected sprinklers.
- Do not rake or blow leaves, clippings or pruning waste into the street, gutter or storm drain. Instead, dispose of green waste by composting, hauling it to a permitted landfill, or recycling it through your city's program.

- Consider recycling your green waste and adding "nature's own fertilizer" to your lawn or garden.
- Read labels and use only as directed. Do not over-apply pesticides or fertilizers. Apply to spots as needed, rather than blanketing an entire area.
- Store pesticides, fertilizers and other chemicals in a dry covered area to prevent exposure that may result in the deterioration of containers and packaging.
- Rinse empty pesticide containers and re-use rinse water as you would use the product. Do not dump rinse water down storm drains or sewers. Dispose of empty containers in the trash.
- When available, use non-toxic alternatives to traditional pesticides, and use pesticides specifically designed to control the pest you are targeting.
- Try natural long-term common sense solutions first. Integrated Pest Management (IPM) can provide landscaping guidance and solutions, such as:
  - **Physical Controls** - Try hand picking, barriers, traps or caulking holes to control weeds and pests.
  - **Biological Controls** - Use predatory insects to control harmful pests.
  - **Chemical Controls** - Check out www.ipm.ucdavis.edu before using chemicals. Remember, all chemicals should be used cautiously and in moderation.
- If fertilizer is spilled, sweep up the spill before irrigating. If the spill is liquid, apply an absorbent material such as cat litter, and then sweep it up and dispose of it in the trash.
- Take unwanted pesticides to a Household Waste Collection Center to be recycled.
- *Dumping toxics into the street, gutter or storm drain is illegal!*

www.bewaterwise.com Great water conservation tips and drought tolerant garden designs.

www.ourwaterourworld.com Learn how to safely manage home and garden pests.

Additional information can also be found on the back of this brochure.

Helpful telephone numbers and links:

Riverside County Stormwater Protection Partners

Flood Control District	(951) 955-1200
County of Riverside	(951) 955-1000
City of Banning	(951) 922-3105
City of Beaumont	(951) 769-8520
City of Calimesa	(909) 795-9801
City of Canyon Lake	(951) 244-2955
Cathedral City	(760) 770-0327
City of Coachella	(760) 398-4978
City of Corona	(951) 736-2447
City of Desert Hot Springs	(760) 329-6411
City of Eastvale	(951) 361-0900
City of Hemet	(951) 765-2300
City of Indian Wells	(760) 346-2489
City of Indio	(760) 391-4000
City of Lake Elsinore	(951) 674-3124
City of La Quinta	(760) 777-7000
City of Menifee	(951) 672-6777
City of Moreno Valley	(951) 413-3000
City of Murrieta	(951) 304-2489
City of Norco	(951) 270-5607
City of Palm Desert	(760) 346-0611
City of Palm Springs	(760) 323-8299
City of Perris	(951) 943-6100
City of Rancho Mirage	(760) 324-4511
City of Riverside	(951) 361-0900
City of San Jacinto	(951) 654-7337
City of Temecula	(951) 694-6444
City of Wildomar	(951) 677-7751

REPORT ILLEGAL STORM DRAIN DISPOSAL
1-800-506-2555 or e-mail us at
fcnpdes@rcflood.org

- Riverside County Flood Control and Water Conservation District
  www.rcflood.org

Online resources include:

- California Storm Water Quality Association
  www.casqa.org
- State Water Resources Control Board
  www.waterboards.ca.gov
- Power Washers of North America
  www.thepwna.org

Stormwater Pollution

What you should know for...

Outdoor Cleaning Activities and Professional Mobile Service Providers

Storm drain pollution prevention information for:

- Car Washing / Mobile Detailers
- Window and Carpet Cleaners
- Power Washers
- Waterproofers / Street Sweepers
- Equipment cleaners or degreasers and all mobile service providers

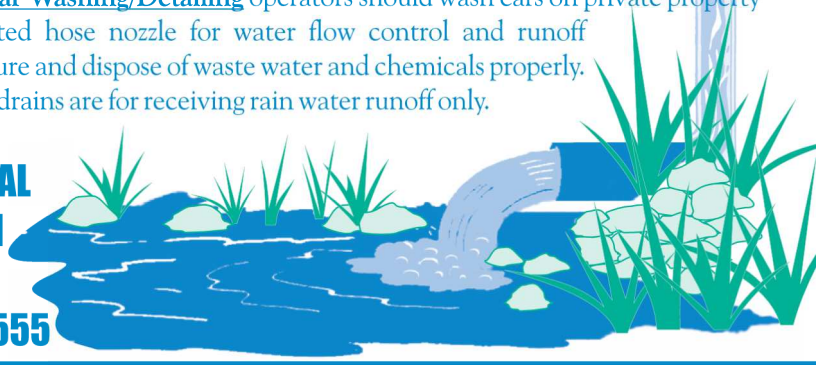
Do you know where street flows actually go?

Storm drains are NOT connected to sanitary sewer systems and treatment plants!

The primary purpose of storm drains is to carry *rain* water away from developed areas to prevent flooding. Pollutants discharged to storm drains are transported directly into rivers, lakes and streams. Soaps, degreasers, automotive fluids, litter and a host of materials are washed off buildings, sidewalks, plazas and parking areas. Vehicles and equipment must be properly managed to prevent the pollution of local waterways.

Unintentional spills by mobile service operators can flow into storm drains and pollute our waterways. **Avoid mishaps.** *Always* have a **Spill Response Kit** on hand to clean up unintentional spills. Only emergency **Mechanical** repairs should be done in City streets, using drip pans for spills. **Plumbing** should be done on private property. Always store chemicals in a leak-proof container and keep covered when not in use. **Window/Power Washing** waste water shouldn't be released into the streets, but should be disposed of in a sanitary sewer, landscaped area or in the soil. Soiled **Carpet Cleaning** wash water should be filtered before being discharged into the sanitary sewer. Dispose of all filter debris properly. **Car Washing/Detailing** operators should wash cars on private property and use a regulated hose nozzle for water flow control and runoff prevention. Capture and dispose of waste water and chemicals properly. Remember, storm drains are for receiving rain water runoff only.

REPORT ILLEGAL STORM DRAIN DISPOSAL 1-800-506-2555



Help Protect Our Waterways!

Use these guidelines for Outdoor Cleaning Activities and Wash Water Disposal

Did you know that disposing of pollutants into the street, gutter, storm drain or body of water is *PROHIBITED* by law and can result in stiff penalties?

Best Management Practices

Waste wash water from Mechanics, Plumbers, Window/Power Washers, Carpet Cleaners, Car Washing and Mobile Detailing activities may contain significant quantities of motor oil, grease, chemicals, dirt, detergents, brake pad dust, litter and other materials.

Best Management Practices, or BMPs as they are known, are guides to prevent pollutants from entering the storm drains. ***Each of us*** can do our part to keep stormwater clean by using the suggested BMPs below:

Simple solutions for both light and heavy duty jobs:

Do...consider dry cleaning methods first such as a mop, broom, rag or wire brush. Always keep a spill response kit on site.

Do...prepare the work area before power cleaning by using sand bags, rubber mats, vacuum booms, containment pads or temporary berms to keep wash water away from the gutters and storm drains.

Do...use vacuums or other machines to remove and collect loose debris or litter before applying water.

Do...obtain the property owner's permission to dispose of ***small amounts*** of power washing waste water on to landscaped, gravel or unpaved surfaces.

Do...check your local sanitary sewer agency's policies on wash water disposal regulations before disposing of wash water into the sewer. (See list on reverse side)

Do...be aware that if discharging to landscape areas, soapy wash water may damage landscaping. Residual wash water may remain on paved surfaces to evaporate. Sweep up solid residuals and dispose of properly. Vacuum booms are another option for capturing and collecting wash water.

Do...check to see if local ordinances prevent certain activities.

Do not let...wash or waste water from sidewalk, plaza or building cleaning go into a street or storm drain.

Report illegal storm drain disposal
Call Toll Free
1-800-506-2555

Using Cleaning Agents

Try using biodegradable/phosphate-free products. They are easier on the environment, but don't confuse them with being toxic free. Soapy water entering the storm drain system can impact the delicate aquatic environment.

When cleaning surfaces with a ***high-pressure washer*** or ***steam cleaner***, additional precautions should be taken to prevent the discharge of pollutants into the storm drain system. These two methods of surface cleaning can loosen additional material that can contaminate local waterways.

Think Water Conservation

Minimize water use by using high pressure, low volume nozzles. Be sure to check all hoses for leaks. Water is a precious resource, don't let it flow freely and be sure to shut it off in between uses.

Screening Wash Water

Conduct thorough dry cleanup before washing exterior surfaces, such as buildings and decks ***with loose paint***, sidewalks or plaza areas. Keep debris from entering the storm drain after cleaning by first passing the wash water through a "20 mesh" or finer screen to catch the solid materials, then dispose of the mesh in a refuse container. Do not let the remaining wash water enter a street, gutter or storm drain.

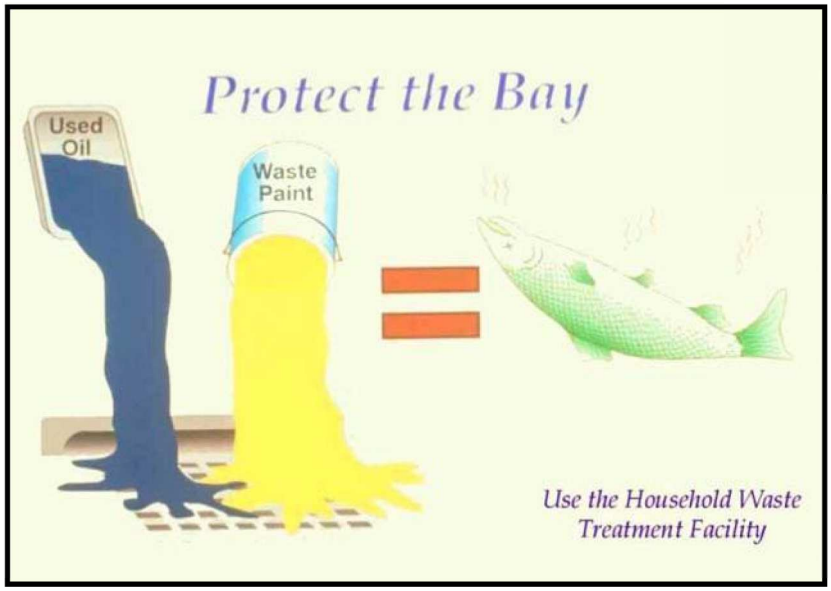
Drain Inlet Protection & Collection of Wash Water

- Prior to any washing, block all storm drains with an impervious barrier such as sandbags or berms, or seal the storm drain with plugs or other appropriate materials.
- Create a containment area with berms and traps or take advantage of a low spot to keep wash water contained.
- Wash vehicles and equipment on grassy or gravel areas so that the wash water can seep into the ground.
- Pump or vacuum up all wash water in the contained area.

Concrete/Coring/Saw Cutting and Drilling Projects

Protect any down-gradient inlets by using dry activity techniques whenever possible. If water is used, minimize the amount of water used during the coring/drilling or saw cutting process. Place a barrier of sandbags and/or absorbent berms to protect the storm drain inlet or watercourse. Use a shovel or wet vacuum to remove the residue from the pavement. Do not wash residue or particulate matter into a storm drain inlet or watercourse.

Non-Stormwater Discharges SC-10



Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Description

Non-stormwater discharges are those flows that do not consist entirely of stormwater. Some non-stormwater discharges do not include pollutants and may be discharged to the storm drain. These include uncontaminated groundwater and natural springs. There are also some non-stormwater discharges that typically do not contain pollutants and may be discharged to the storm drain with conditions. These include car washing, air conditioner condensate, etc. However there are certain non-stormwater discharges that pose environmental concern. These discharges may originate from illegal dumping or from internal floor drains, appliances, industrial processes, sinks, and toilets that are connected to the nearby storm drainage system. These discharges (which may include: process waste waters, cooling waters, wash waters, and sanitary wastewater) can carry substances such as paint, oil, fuel and other automotive fluids, chemicals and other pollutants into storm drains. They can generally be detected through a combination of detection and elimination. The ultimate goal is to effectively eliminate non-stormwater discharges to the stormwater drainage system through implementation of measures to detect, correct, and enforce against illicit connections and illegal discharges of pollutants on streets and into the storm drain system and creeks.

Targeted Constituents

Sediment	
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Approach

Initially the industry must make an assessment of non-stormwater discharges to determine which types must be eliminated or addressed through BMPs. The focus of the following approach is in the elimination of non-stormwater discharges.

CASQA California Stormwater Quality Association

Pollution Prevention

- Ensure that used oil, used antifreeze, and hazardous chemical recycling programs are being implemented. Encourage litter control.

Suggested Protocols

Recommended Complaint Investigation Equipment

- Field Screening Analysis
  - pH paper or meter
  - Commercial stormwater pollutant screening kit that can detect for reactive phosphorus, nitrate nitrogen, ammonium nitrogen, specific conductance, and turbidity
  - Sample jars
  - Sample collection pole
  - A tool to remove access hole covers
- Laboratory Analysis
  - Sample cooler
  - Ice
  - Sample jars and labels
  - Chain of custody forms
- Documentation
  - Camera
  - Notebook
  - Pens
  - Notice of Violation forms
  - Educational materials

General

- Develop clear protocols and lines of communication for effectively prohibiting non-stormwater discharges, especially those that are not classified as hazardous. These are often not responded to as effectively as they need to be.
- Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as “Dump No Waste Drains to Stream” stenciled or demarcated next to them to warn against ignorant or intentional dumping of pollutants into the storm drainage system.

- See SC44 Stormwater Drainage System Maintenance for additional information.

Illicit Connections

- Locate discharges from the industrial storm drainage system to the municipal storm drain system through review of "as-built" piping schematics.
- Isolate problem areas and plug illicit discharge points.
- Locate and evaluate all discharges to the industrial storm drain system.

Visual Inspection and Inventory

- Inventory and inspect each discharge point during dry weather.
- Keep in mind that drainage from a storm event can continue for a day or two following the end of a storm and groundwater may infiltrate the underground stormwater collection system. Also, non-stormwater discharges are often intermittent and may require periodic inspections.

Review Infield Piping

- A review of the "as-built" piping schematic is a way to determine if there are any connections to the stormwater collection system.
- Inspect the path of floor drains in older buildings.

Smoke Testing

- Smoke testing of wastewater and stormwater collection systems is used to detect connections between the two systems.
- During dry weather the stormwater collection system is filled with smoke and then traced to sources. The appearance of smoke at the base of a toilet indicates that there may be a connection between the sanitary and the stormwater system.

Dye Testing

- A dye test can be performed by simply releasing a dye into either your sanitary or process wastewater system and examining the discharge points from the stormwater collection system for discoloration.

TV Inspection of Drainage System

- TV Cameras can be employed to visually identify illicit connections to the industrial storm drainage system.

Illegal Dumping

- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs.
- On paved surfaces, clean up spills with as little water as possible. Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.

- Never hose down or bury dry material spills. Sweep up the material and dispose of properly.
- Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.
- For larger spills, a private spill cleanup company or Hazmat team may be necessary.

Once a site has been cleaned:

- Post "No Dumping" signs with a phone number for reporting dumping and disposal.
- Landscaping and beautification efforts of hot spots may also discourage future dumping, as well as provide open space and increase property values.
- Lighting or barriers may also be needed to discourage future dumping.
- See fact sheet SC11 Spill Prevention, Control, and Cleanup.

Inspection

- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs.
- Conduct field investigations of the industrial storm drain system for potential sources of non-stormwater discharges.
- Pro-actively conduct investigations of high priority areas. Based on historical data, prioritize specific geographic areas and/or incident type for pro-active investigations.

Reporting

- A database is useful for defining and tracking the magnitude and location of the problem.
- Report prohibited non-stormwater discharges observed during the course of normal daily activities so they can be investigated, contained, and cleaned up or eliminated.
- Document that non-stormwater discharges have been eliminated by recording tests performed, methods used, dates of testing, and any on-site drainage points observed.
- Document and report annually the results of the program.
- Maintain documentation of illicit connection and illegal dumping incidents, including significant conditionally exempt discharges that are not properly managed.

Training

- Training of technical staff in identifying and documenting illegal dumping incidents is required.
- Consider posting the quick reference table near storm drains to reinforce training.
- Train employees to identify non-stormwater discharges and report discharges to the appropriate departments.

- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills. The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur. Employees should be familiar with the Spill Prevention Control and Countermeasure Plan.
- Determine and implement appropriate outreach efforts to reduce non-permissible non-stormwater discharges.
- Conduct spill response drills annually (if no events occurred to evaluate your plan) in cooperation with other industries.
- When a responsible party is identified, educate the party on the impacts of his or her actions.

Spill Response and Prevention

- See SC11 Spill Prevention Control and Cleanup.

Other Considerations

- Many facilities do not have accurate, up-to-date schematic drawings.

Requirements

Costs (including capital and operation & maintenance)

- The primary cost is for staff time and depends on how aggressively a program is implemented.
- Cost for containment and disposal is borne by the discharger.
- Illicit connections can be difficult to locate especially if there is groundwater infiltration.
- Indoor floor drains may require re-plumbing if cross-connections to storm drains are detected.

Maintenance (including administrative and staffing)

- Illegal dumping and illicit connection violations requires technical staff to detect and investigate them.

Supplemental Information

Further Detail of the BMP

Illegal Dumping

- Substances illegally dumped on streets and into the storm drain systems and creeks include paints, used oil and other automotive fluids, construction debris, chemicals, fresh concrete, leaves, grass clippings, and pet wastes. All of these wastes cause stormwater and receiving water quality problems as well as clog the storm drain system itself.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - Illegal dumping hot spots

- Types and quantities (in some cases) of wastes
- Patterns in time of occurrence (time of day/night, month, or year)
- Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills)
- Responsible parties

One of the keys to success of reducing or eliminating illegal dumping is increasing the number of people at the facility who are aware of the problem and who have the tools to at least identify the incident, if not correct it. Therefore, train field staff to recognize and report the incidents.

What constitutes a "non-stormwater" discharge?

- Non-stormwater discharges to the stormwater collection system may include any water used directly in the manufacturing process (process wastewater), air conditioning condensate and coolant, non-contact cooling water, cooling equipment condensate, outdoor secondary containment water, vehicle and equipment wash water, sink and drinking fountain wastewater, sanitary wastes, or other wastewaters.

Permit Requirements

- Facilities subject to stormwater permit requirements must include a certification that the stormwater collection system has been tested or evaluated for the presence of non-stormwater discharges. The State's General Industrial Stormwater Permit requires that non-stormwater discharges be eliminated prior to implementation of the facility's SWPPP.

Performance Evaluation

- Review annually internal investigation results; assess whether goals were met and what changes or improvements are necessary.
- Obtain feedback from personnel assigned to respond to, or inspect for, illicit connections and illegal dumping incidents.

References and Resources

California's Nonpoint Source Program Plan http://www.swrcb.ca.gov/nps/index.html

Clark County Storm Water Pollution Control Manual
http://www.co.clark.wa.us/pubworks/bmpman.pdf

King County Storm Water Pollution Control Manual http://dnr.metrokc.gov/wlr/dss/spcm.htm

Santa Clara Valley Urban Runoff Pollution Prevention Program http://www.scvurppp.org

The Storm Water Managers Resource Center http://www.stormwatercenter.net/

Building & Grounds Maintenance SC-41

Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	
Organics	

Description

Stormwater runoff from building and grounds maintenance activities can be contaminated with toxic hydrocarbons in solvents, fertilizers and pesticides, suspended solids, heavy metals, abnormal pH, and oils and greases. Utilizing the protocols in this fact sheet will prevent or reduce the discharge of pollutants to stormwater from building and grounds maintenance activities by washing and cleaning up with as little water as possible, following good landscape management practices, preventing and cleaning up spills immediately, keeping debris from entering the storm drains, and maintaining the stormwater collection system.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

Pollution Prevention

- Switch to non-toxic chemicals for maintenance when possible.
- Choose cleaning agents that can be recycled.
- Encourage proper lawn management and landscaping, including use of native vegetation.

CASQA California Stormwater Quality Association

- Encourage use of Integrated Pest Management techniques for pest control.
- Encourage proper onsite recycling of yard trimmings.
- Recycle residual paints, solvents, lumber, and other material as much as possible.

Suggested Protocols

Pressure Washing of Buildings, Rooftops, and Other Large Objects

- In situations where soaps or detergents are used and the surrounding area is paved, pressure washers must use a water collection device that enables collection of wash water and associated solids. A sump pump, wet vacuum or similarly effective device must be used to collect the runoff and loose materials. The collected runoff and solids must be disposed of properly.
- If soaps or detergents are not used, and the surrounding area is paved, wash runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in the catch basin to trap the particles in wash water runoff.
- If you are pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement.

Landscaping Activities

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage, or by composting. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures on exposed soils.

Building Repair, Remodeling, and Construction

- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.
- Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.
- Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.
- Clean paintbrushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.
- Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a catch basin. This is particularly necessary on rainy days. The containment device(s) must be in place at the beginning of the work day, and accumulated dirty runoff and solids must be collected and disposed of before removing the containment device(s) at the end of the work day.

- If you need to de-water an excavation site, you may need to filter the water before discharging to a catch basin or off-site. If directed off-site, you should direct the water through hay bales and filter fabric or use other sediment filters or traps.
- Store toxic material under cover during precipitation events and when not in use. A cover would include tarps or other temporary cover material.

Mowing, Trimming, and Planting

- Dispose of leaves, sticks, or other collected vegetation as garbage, by composting or at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures when soils are exposed.
- Place temporarily stockpiled material away from watercourses and drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.
- Consider an alternative approach when bailing out muddy water: do not put it in the storm drain; pour over landscaped areas.
- Use hand weeding where practical.

Fertilizer and Pesticide Management

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.
- Use less toxic pesticides that will do the job when applicable. Avoid use of copper-based pesticides if possible.
- Do not use pesticides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount needed for the job.
- Calibrate fertilizer distributors to avoid excessive application.
- Employ techniques to minimize off-target application (e.g., spray drift) of pesticides, including consideration of alternative application techniques.
- Apply pesticides only when wind speeds are low.
- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Irrigate slowly to prevent runoff and then only as much as is needed.
- Clean pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.
- Dispose of empty pesticide containers according to the instructions on the container label.

- Use up the pesticides. Rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- Implement storage requirements for pesticide products with guidance from the local fire department and County Agricultural Commissioner. Provide secondary containment for pesticides.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering and repair leaks in the irrigation system as soon as they are observed.

Training

- Educate and train employees on pesticide use and in pesticide application techniques to prevent pollution.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Be sure the frequency of training takes into account the complexity of the operations and the nature of the staff.

Spill Response and Prevention

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials, such as brooms, dustpans, and vacuum sweepers (if desired) near the storage area where it will be readily accessible.
- Have employees trained in spill containment and cleanup present during the loading/unloading of dangerous wastes, liquid chemicals, or other materials.
- Familiarize employees with the Spill Prevention Control and Countermeasure Plan.
- Clean up spills immediately.

Other Considerations

Alternative pest/weed controls may not be available, suitable, or effective in many cases.

Requirements

Costs

- Cost will vary depending on the type and size of facility.
- Overall costs should be low in comparison to other BMPs.

Maintenance

Sweep paved areas regularly to collect loose particles. Wipe up spills with rags and other absorbent material immediately, do not hose down the area to a storm drain.

Supplemental Information

Further Detail of the BMP

Fire Sprinkler Line Flushing

Building fire sprinkler line flushing may be a source of non-stormwater runoff pollution. The water entering the system is usually potable water, though in some areas it may be non-potable reclaimed wastewater. There are subsequent factors that may drastically reduce the quality of the water in such systems. Black iron pipe is usually used since it is cheaper than potable piping, but it is subject to rusting and results in lower quality water. Initially, the black iron pipe has an oil coating to protect it from rusting between manufacture and installation; this will contaminate the water from the first flush but not from subsequent flushes. Nitrates, poly-phosphates and other corrosion inhibitors, as well as fire suppressants and antifreeze may be added to the sprinkler water system. Water generally remains in the sprinkler system a long time (typically a year) and between flushes may accumulate iron, manganese, lead, copper, nickel, and zinc. The water generally becomes anoxic and contains living and dead bacteria and breakdown products from chlorination. This may result in a significant BOD problem and the water often smells. Consequently dispose fire sprinkler line flush water into the sanitary sewer. Do not allow discharge to storm drain or infiltration due to potential high levels of pollutants in fire sprinkler line water.

References and Resources

California's Nonpoint Source Program Plan http://www.swrcb.ca.gov/nps/index.html

Clark County Storm Water Pollution Control Manual
http://www.co.clark.wa.us/pubworks/bmpman.pdf

King County Storm Water Pollution Control Manual http://dnr.metrokc.gov/wlr/dss/spcm.htm

Mobile Cleaners Pilot Program: Final Report. 1997. Bay Area Stormwater Management Agencies Association (BASMAA). http://www.basmaa.org/

Pollution from Surface Cleaning Folder. 1996. Bay Area Stormwater Management Agencies Association (BASMAA). http://www.basmaa.org/

Santa Clara Valley Urban Runoff Pollution Prevention Program http://www.scvurppp.org

The Storm Water Managers Resource Center http://www.stormwatercenter.net/

Parking/Storage Area Maintenance SC-43

Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Description

Parking lots and storage areas can contribute a number of substances, such as trash, suspended solids, hydrocarbons, oil and grease, and heavy metals that can enter receiving waters through stormwater runoff or non-stormwater discharges. The protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants from parking/storage areas and include using good housekeeping practices, following appropriate cleaning BMPs, and training employees.

Approach

The goal of this program is to ensure stormwater pollution prevention practices are considered when conducting activities on or around parking areas and storage areas to reduce potential for pollutant discharge to receiving waters. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

Pollution Prevention

- Encourage alternative designs and maintenance strategies for impervious parking lots. (See New Development and Redevelopment BMP Handbook)

- Keep accurate maintenance logs to evaluate BMP implementation.

CASQA California Stormwater Quality Association

SC-43 Parking/Storage Area Maintenance

Suggested Protocols

General

- Keep the parking and storage areas clean and orderly. Remove debris in a timely fashion.
- Allow sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low quantities.
- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.
- Discharge soapy water remaining in mop or wash buckets to the sanitary sewer through a sink, toilet, clean-out, or wash area with drain.

Controlling Litter

- Post "No Littering" signs and enforce anti-litter laws.
- Provide an adequate number of litter receptacles.
- Clean out and cover litter receptacles frequently to prevent spillage.
- Provide trash receptacles in parking lots to discourage litter.
- Routinely sweep, shovel, and dispose of litter in the trash.

Surface Cleaning

- Use dry cleaning methods (e.g., sweeping, vacuuming) to prevent the discharge of pollutants into the stormwater conveyance system if possible.
- Establish frequency of public parking lot sweeping based on usage and field observations of waste accumulation.
- Sweep all parking lots at least once before the onset of the wet season.
- Follow the procedures below if water is used to clean surfaces:
  - Block the storm drain or contain runoff.
  - Collect and pump wash water to the sanitary sewer or discharge to a pervious surface. Do not allow wash water to enter storm drains.
  - Dispose of parking lot sweeping debris and dirt at a landfill.
- Follow the procedures below when cleaning heavy oily deposits:
  - Clean oily spots with absorbent materials.
  - Use a screen or filter fabric over inlet, then wash surfaces.

- Do not allow discharges to the storm drain.
- Vacuum/pump discharges to a tank or discharge to sanitary sewer.
- Appropriately dispose of spilled materials and absorbents.

Surface Repair

- Preheat, transfer or load hot bituminous material away from storm drain inlets.
- Apply concrete, asphalt, and seal coat during dry weather to prevent contamination from contacting stormwater runoff.
- Cover and seal nearby storm drain inlets where applicable (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in place until job is complete and all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal.
- Use only as much water as necessary for dust control, to avoid runoff.
- Catch drips from paving equipment that is not in use with pans or absorbent material placed under the machines. Dispose of collected material and absorbents properly.

Inspection

- Have designated personnel conduct inspections of parking facilities and stormwater conveyance systems associated with parking facilities on a regular basis.
- Inspect cleaning equipment/sweepers for leaks on a regular basis.

Training

- Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.
- Train employees and contractors in proper techniques for spill containment and cleanup.

Spill Response and Prevention

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up fluid spills immediately with absorbent rags or material.
- Dispose of spilled material and absorbents properly.

Other Considerations

Limitations related to sweeping activities at large parking facilities may include high equipment costs, the need for sweeper operator training, and the inability of current sweeper technology to remove oil and grease.

SC-43 Parking/Storage Area Maintenance

Requirements

Costs

Cleaning/sweeping costs can be quite large. Construction and maintenance of stormwater structural controls can be quite expensive as well.

Maintenance

- Sweep parking lot regularly to minimize cleaning with water.
- Clean out oil/water/sand separators regularly, especially after heavy storms.
- Clean parking facilities regularly to prevent accumulated wastes and pollutants from being discharged into conveyance systems during rainy conditions.

Supplemental Information

Further Detail of the BMP

Surface Repair

Apply concrete, asphalt, and seal coat during dry weather to prevent contamination from contacting stormwater runoff. Where applicable, cover and seal nearby storm drain inlets (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in place until job is complete and all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal. Only use only as much water as is necessary for dust control to avoid runoff.

References and Resources

California's Nonpoint Source Program Plan http://www.swrcb.ca.gov/nps/index.html

Clark County Storm Water Pollution Control Manual
http://www.co.clark.wa.us/pubworks/bmpman.pdf

King County Storm Water Pollution Control Manual http://dnr.metrokc.gov/wlr/dss/spcm.htm

Pollution from Surface Cleaning Folder. 1996. Bay Area Stormwater Management Agencies Association (BASMAA). http://www.basmaa.org/

Oregon Association of Clean Water Agencies. Oregon Municipal Stormwater Toolbox for Maintenance Practices. June 1998.

Santa Clara Valley Urban Runoff Pollution Prevention Program http://www.scvurppp.org

The Storm Water Managers Resource Center http://www.stormwatercenter.net/

Drainage System Maintenance SC-44

Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize

Description

As a consequence of its function, the stormwater conveyance system collects and transports urban runoff and stormwater that may contain certain pollutants. The protocols in this fact sheet are intended to reduce pollutants reaching receiving waters through proper conveyance system operation and maintenance.

Targeted Constituents

Sediment	✓
Nutrients	
Trash	✓
Metals	
Bacteria	✓
Oil and Grease	
Organics	

Approach

Pollution Prevention

Maintain catch basins, stormwater inlets, and other stormwater conveyance structures on a regular basis to remove pollutants, reduce high pollutant concentrations during the first flush of storms, prevent clogging of the downstream conveyance system, restore catch basins' sediment trapping capacity, and ensure the system functions properly hydraulically to avoid flooding.

Suggested Protocols

Catch Basins/Inlet Structures

- Staff should regularly inspect facilities to ensure compliance with the following:
  - Immediate repair of any deterioration threatening structural integrity.
  - Cleaning before the sump is 40% full. Catch basins should be cleaned as frequently as needed to meet this standard.
  - Stenciling of catch basins and inlets (see SC34 Waste Handling and Disposal).

CASQA California Stormwater Quality Association

- Clean catch basins, storm drain inlets, and other conveyance structures before the wet season to remove sediments and debris accumulated during the summer.
- Conduct inspections more frequently during the wet season for problem areas where sediment or trash accumulates more often. Clean and repair as needed.
- Keep accurate logs of the number of catch basins cleaned.
- Store wastes collected from cleaning activities of the drainage system in appropriate containers or temporary storage sites in a manner that prevents discharge to the storm drain.
- Dewater the wastes if necessary with outflow into the sanitary sewer if permitted. Water should be treated with an appropriate filtering device prior to discharge to the sanitary sewer. If discharge to the sanitary sewer is not allowed, water should be pumped or vacuumed to a tank and properly disposed. Do not dewater near a storm drain or stream.

Storm Drain Conveyance System

- Locate reaches of storm drain with deposit problems and develop a flushing schedule that keeps the pipe clear of excessive buildup.
- Collect and pump flushed effluent to the sanitary sewer for treatment whenever possible.

Pump Stations

- Clean all storm drain pump stations prior to the wet season to remove silt and trash.
- Do not allow discharge to reach the storm drain system when cleaning a storm drain pump station or other facility.
- Conduct routine maintenance at each pump station.
- Inspect, clean, and repair as necessary all outlet structures prior to the wet season.

Open Channel

- Modify storm channel characteristics to improve channel hydraulics, increase pollutant removals, and enhance channel/creek aesthetic and habitat value.
- Conduct channel modification/improvement in accordance with existing laws. Any person, government agency, or public utility proposing an activity that will change the natural (emphasis added) state of any river, stream, or lake in California, must enter into a Steam or Lake Alteration Agreement with the Department of Fish and Game. The developer-applicant should also contact local governments (city, county, special districts), other state agencies (SWRCB, RWQCB, Department of Forestry, Department of Water Resources), and Federal Corps of Engineers and USFWS.

Illicit Connections and Discharges

- Look for evidence of illegal discharges or illicit connections during routine maintenance of conveyance system and drainage structures:
  - Is there evidence of spills such as paints, discoloring, etc?

- Are there any odors associated with the drainage system?
- Record locations of apparent illegal discharges/illicit connections?
- Track flows back to potential dischargers and conduct aboveground inspections. This can be done through visual inspection of upgradient manholes or alternate techniques including zinc chloride smoke testing, fluorometric dye testing, physical inspection testing, or television camera inspection.
- Eliminate the discharge once the origin of flow is established.

- Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" stenciled next to them to warn against ignorant or intentional dumping of pollutants into the storm drainage system.
- Refer to fact sheet SC-10 Non-Stormwater Discharges.

Illegal Dumping

- Inspect and clean up hot spots and other storm drainage areas regularly where illegal dumping and disposal occurs.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - Illegal dumping hot spots
  - Types and quantities (in some cases) of wastes
  - Patterns in time of occurrence (time of day/night, month, or year)
  - Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills)
  - Responsible parties
- Post "No Dumping" signs in problem areas with a phone number for reporting dumping and disposal. Signs should also indicate fines and penalties for illegal dumping.
- Refer to fact sheet SC-10 Non-Stormwater Discharges.

Training

- Train crews in proper maintenance activities, including record keeping and disposal.
- Allow only properly trained individuals to handle hazardous materials/wastes.
- Have staff involved in detection and removal of illicit connections trained in the following:
  - OSHA-required Health and Safety Training (29 CFR 1910.120) plus annual refresher training (as needed).

- OSHA Confined Space Entry training (Cal-OSHA Confined Space, Title 8 and Federal OSHA 29 CFR 1910.146).

- Procedural training (field screening, sampling, smoke/dye testing, TV inspection).

Spill Response and Prevention

- Investigate all reports of spills, leaks, and/or illegal dumping promptly.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags) or dig up, remove, and properly dispose of contaminated soil.
- Refer to fact sheet SC-11 Spill Prevention, Control, and Cleanup.

Other Considerations (Limitations and Regulations)

- Clean-up activities may create a slight disturbance for local aquatic species. Access to items and material on private property may be limited. Trade-offs may exist between channel hydraulics and water quality/riparian habitat. If storm channels or basins are recognized as wetlands, many activities, including maintenance, may be subject to regulation and permitting.
- Storm drain flushing is most effective in small diameter pipes (36-inch diameter pipe or less, depending on water supply and sediment collection capacity). Other considerations associated with storm drain flushing may include the availability of a water source, finding a downstream area to collect sediments, liquid/sediment disposal, and prohibition against disposal of flushed effluent to sanitary sewer in some areas.
- Regulations may include adoption of substantial penalties for illegal dumping and disposal.
- Local municipal codes may include sections prohibiting discharge of soil, debris, refuse, hazardous wastes, and other pollutants into the storm drain system.

Requirements

Costs

- An aggressive catch basin cleaning program could require a significant capital and O&M budget.
- The elimination of illegal dumping is dependent on the availability, convenience, and cost of alternative means of disposal. The primary cost is for staff time. Cost depends on how aggressively a program is implemented. Other cost considerations for an illegal dumping program include:

  - Purchase and installation of signs.

  - Rental of vehicle(s) to haul illegally-disposed items and material to landfills.

  - Rental of heavy equipment to remove larger items (e.g., car bodies) from channels.

  - Purchase of landfill space to dispose of illegally-dumped items and material.

- Methods used for illicit connection detection (smoke testing, dye testing, visual inspection, and flow monitoring) can be costly and time-consuming. Site-specific factors, such as the level of impervious area, the density and ages of buildings, and type of land use will determine the level of investigation necessary.

Maintenance

- Two-person teams may be required to clean catch basins with vactor trucks.
- Teams of at least two people plus administrative personnel are required to identify illicit discharges, depending on the complexity of the storm sewer system.
- Arrangements must be made for proper disposal of collected wastes.
- Technical staff are required to detect and investigate illegal dumping violations.

Supplemental Information

Further Detail of the BMP

Storm Drain Flushing

Flushing is a common maintenance activity used to improve pipe hydraulics and to remove pollutants in storm drainage systems. Flushing may be designed to hydraulically convey accumulated material to strategic locations, such as an open channel, another point where flushing will be initiated, or the sanitary sewer and the treatment facilities, thus preventing resuspension and overflow of a portion of the solids during storm events. Flushing prevents "plug flow" discharges of concentrated pollutant loadings and sediments. Deposits can hinder the designed conveyance capacity of the storm drain system and potentially cause backwater conditions in severe cases of clogging.

Storm drain flushing usually takes place along segments of pipe with grades that are too flat to maintain adequate velocity to keep particles in suspension. An upstream manhole is selected to place an inflatable device that temporarily plugs the pipe. Further upstream, water is pumped into the line to create a flushing wave. When the upstream reach of pipe is sufficiently full to cause a flushing wave, the inflated device is rapidly deflated with the assistance of a vacuum pump, thereby releasing the backed up water and resulting in the cleaning of the storm drain segment.

To further reduce impacts of stormwater pollution, a second inflatable device placed well downstream may be used to recollect the water after the force of the flushing wave has dissipated. A pump may then be used to transfer the water and accumulated material to the sanitary sewer for treatment. In some cases, an interceptor structure may be more practical or required to recollect the flushed waters.

It has been found that cleansing efficiency of periodic flush waves is dependent upon flush volume, flush discharge rate, sewer slope, sewer length, sewer flow rate, sewer diameter, and population density. As a rule of thumb, the length of line to be flushed should not exceed 700 feet. At this maximum recommended length, the percent removal efficiency ranges between 65-75% for organics and 55-65% for dry weather grit/inorganic material. The percent removal efficiency drops rapidly beyond that. Water is commonly supplied by a water truck, but fire hydrants can also supply water. To make the best use of water, it is recommended that reclaimed water be used or that fire hydrant line flushing coincide with storm sewer flushing.

References and Resources

California's Nonpoint Source Program Plan http://www.swrcb.ca.gov/nps/index.html

Clark County Storm Water Pollution Control Manual
http://www.co.clark.wa.us/pubworks/bmpman.pdf

Ferguson, B.K. 1991. Urban Stream Reclamation, p. 324-322, Journal of Soil and Water Conservation.

King County Storm Water Pollution Control Manual http://dnr.metrokc.gov/wlr/dss/spcm.htm

Oregon Association of Clean Water Agencies. Oregon Municipal Stormwater Toolbox for Maintenance Practices. June 1998.

Santa Clara Valley Urban Runoff Pollution Prevention Program http://www.scvurppp.org

The Storm Water Managers Resource Center http://www.stormwatercenter.net

United States Environmental Protection Agency (USEPA). 2002. Pollution Prevention/Good Housekeeping for Municipal Operations Storm Drain System Cleaning. On line:
http://www.epa.gov/npdes/menuofbmps/poll_16.htm

Landscape Maintenance SC-73

Objectives

- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	
Bacteria	
Oil and Grease	
Organics	
Oxygen Demanding	☑

Description

Landscape maintenance activities include vegetation removal; herbicide and insecticide application; fertilizer application; watering; and other gardening and lawn care practices. Vegetation control typically involves a combination of chemical (herbicide) application and mechanical methods. All of these maintenance practices have the potential to contribute pollutants to the storm drain system. The major objectives of this BMP are to minimize the discharge of pesticides, herbicides and fertilizers to the storm drain system and receiving waters; prevent the disposal of landscape waste into the storm drain system by collecting and properly disposing of clippings and cuttings, and educating employees and the public.

Approach

Pollution Prevention

- Implement an integrated pest management (IPM) program. IPM is a sustainable approach to managing pests by combining biological, cultural, physical, and chemical tools.
- Choose low water using flowers, trees, shrubs, and groundcover.
- Consider alternative landscaping techniques such as naturescaping and xeriscaping.
- Conduct appropriate maintenance (i.e. properly timed fertilizing, weeding, pest control, and pruning) to help preserve the landscapes water efficiency.

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

- Consider grass cycling (grass cycling is the natural recycling of grass by leaving the clippings on the lawn when mowing. Grass clippings decompose quickly and release valuable nutrients back into the lawn).

Suggested Protocols

Mowing, Trimming, and Weeding

- Whenever possible use mechanical methods of vegetation removal (e.g mowing with tractor-type or push mowers, hand cutting with gas or electric powered weed trimmers) rather than applying herbicides. Use hand weeding where practical.
- Avoid loosening the soil when conducting mechanical or manual weed control, this could lead to erosion. Use mulch or other erosion control measures when soils are exposed.
- Performing mowing at optimal times. Mowing should not be performed if significant rain events are predicted.
- Mulching mowers may be recommended for certain flat areas. Other techniques may be employed to minimize mowing such as selective vegetative planting using low maintenance grasses and shrubs.
- Collect lawn and garden clippings, pruning waste, tree trimmings, and weeds. Chip if necessary, and compost or dispose of at a landfill (see waste management section of this fact sheet).
- Place temporarily stockpiled material away from watercourses, and berm or cover stockpiles to prevent material releases to storm drains.

Planting

- Determine existing native vegetation features (location, species, size, function, importance) and consider the feasibility of protecting them. Consider elements such as their effect on drainage and erosion, hardiness, maintenance requirements, and possible conflicts between preserving vegetation and the resulting maintenance needs.
- Retain and/or plant selected native vegetation whose features are determined to be beneficial, where feasible. Native vegetation usually requires less maintenance (e.g., irrigation, fertilizer) than planting new vegetation.
- Consider using low water use groundcovers when planting or replanting.

Waste Management

- Compost leaves, sticks, or other collected vegetation or dispose of at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Place temporarily stockpiled material away from watercourses and storm drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.
- Reduce the use of high nitrogen fertilizers that produce excess growth requiring more frequent mowing or trimming.

- Avoid landscape wastes in and around storm drain inlets by either using bagging equipment or by manually picking up the material.

Irrigation

- Where practical, use automatic timers to minimize runoff.
- Use popup sprinkler heads in areas with a lot of activity or where there is a chance the pipes may be broken. Consider the use of mechanisms that reduce water flow to sprinkler heads if broken.
- Ensure that there is no runoff from the landscaped area(s) if re-claimed water is used for irrigation.
- If bailing of muddy water is required (e.g. when repairing a water line leak), do not put it in the storm drain; pour over landscaped areas.
- Irrigate slowly or pulse irrigate to prevent runoff and then only irrigate as much as is needed.
- Apply water at rates that do not exceed the infiltration rate of the soil.

Fertilizer and Pesticide Management

- Utilize a comprehensive management system that incorporates integrated pest management (IPM) techniques. There are many methods and types of IPM, including the following:
  - Mulching can be used to prevent weeds where turf is absent, fencing installed to keep rodents out, and netting used to keep birds and insects away from leaves and fruit.
  - Visible insects can be removed by hand (with gloves or tweezers) and placed in soapy water or vegetable oil. Alternatively, insects can be sprayed off the plant with water or in some cases vacuumed off of larger plants.
  - Store-bought traps, such as species-specific, pheromone-based traps or colored sticky cards, can be used.
  - Slugs can be trapped in small cups filled with beer that are set in the ground so the slugs can get in easily.
  - In cases where microscopic parasites, such as bacteria and fungi, are causing damage to plants, the affected plant material can be removed and disposed of (pruning equipment should be disinfected with bleach to prevent spreading the disease organism).
  - Small mammals and birds can be excluded using fences, netting, tree trunk guards.
  - Beneficial organisms, such as bats, birds, green lacewings, ladybugs, praying mantis, ground beetles, parasitic nematodes, trichogramma wasps, seed head weevils, and spiders that prey on detrimental pest species can be promoted.
- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.

- Use pesticides only if there is an actual pest problem (not on a regular preventative schedule).
- Do not use pesticides if rain is expected. Apply pesticides only when wind speeds are low (less than 5 mph).
- Do not mix or prepare pesticides for application near storm drains.
- Prepare the minimum amount of pesticide needed for the job and use the lowest rate that will effectively control the pest.
- Employ techniques to minimize off-target application (e.g. spray drift) of pesticides, including consideration of alternative application techniques.
- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Calibrate fertilizer and pesticide application equipment to avoid excessive application.
- Periodically test soils for determining proper fertilizer use.
- Sweep pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.
- Purchase only the amount of pesticide that you can reasonably use in a given time period (month or year depending on the product).
- Triple rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- Dispose of empty pesticide containers according to the instructions on the container label.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering, and repair leaks in the irrigation system as soon as they are observed.
- Inspect pesticide/fertilizer equipment and transportation vehicles daily.

Training

- Educate and train employees on use of pesticides and in pesticide application techniques to prevent pollution. Pesticide application must be under the supervision of a California qualified pesticide applicator.
- Train/encourage municipal maintenance crews to use IPM techniques for managing public green areas.
- Annually train employees within departments responsible for pesticide application on the appropriate portions of the agency's IPM Policy, SOPs, and BMPs, and the latest IPM techniques.

- Employees who are not authorized and trained to apply pesticides should be periodically (at least annually) informed that they cannot use over-the-counter pesticides in or around the workplace.
- Use a training log or similar method to document training.

Spill Response and Prevention

- Refer to SC-11, Spill Prevention, Control & Cleanup
- Have spill cleanup materials readily available and in a know in location
- Cleanup spills immediately and use dry methods if possible.
- Properly dispose of spill cleanup material.

Other Considerations

- The Federal Pesticide, Fungicide, and Rodenticide Act and California Title 3, Division 6, Pesticides and Pest Control Operations place strict controls over pesticide application and handling and specify training, annual refresher, and testing requirements. The regulations generally cover: a list of approved pesticides and selected uses, updated regularly; general application information; equipment use and maintenance procedures; and record keeping. The California Department of Pesticide Regulations and the County Agricultural Commission coordinate and maintain the licensing and certification programs. All public agency employees who apply pesticides and herbicides in "agricultural use" areas such as parks, golf courses, rights-of-way and recreation areas should be properly certified in accordance with state regulations. Contracts for landscape maintenance should include similar requirements.
- All employees who handle pesticides should be familiar with the most recent material safety data sheet (MSDS) files.
- Municipalities do not have the authority to regulate the use of pesticides by school districts, however the California Healthy Schools Act of 2000 (AB 2260) has imposed requirements on California school districts regarding pesticide use in schools. Posting of notification prior to the application of pesticides is now required, and IPM is stated as the preferred approach to pest management in schools.

Requirements

Costs

Additional training of municipal employees will be required to address IPM techniques and BMPs. IPM methods will likely increase labor cost for pest control which may be offset by lower chemical costs.

Maintenance

Not applicable

Supplemental Information

Further Detail of the BMP

Waste Management

Composting is one of the better disposal alternatives if locally available. Most municipalities either have or are planning yard waste composting facilities as a means of reducing the amount of waste going to the landfill. Lawn clippings from municipal maintenance programs as well as private sources would probably be compatible with most composting facilities

Contractors and Other Pesticide Users

Municipal agencies should develop and implement a process to ensure that any contractor employed to conduct pest control and pesticide application on municipal property engages in pest control methods consistent with the IPM Policy adopted by the agency. Specifically, municipalities should require contractors to follow the agency's IPM policy, SOPs, and BMPs; provide evidence to the agency of having received training on current IPM techniques when feasible; provide documentation of pesticide use on agency property to the agency in a timely manner.

References and Resources

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. 1995. King County Surface Water Management. July. On-line: http://dnr.metrokc.gov/wlr/dss/spcm.htm

Los Angeles County Stormwater Quality Model Programs. Public Agency Activities http://ladpw.org/wmd/npdes/model_links.cfm

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July. 1998.

Orange County Stormwater Program http://www.ocwatersheds.com/StormWater/swp_introduction.asp

Santa Clara Valley Urban Runoff Pollution Prevention Program. 1997 Urban Runoff Management Plan. September 1997, updated October 2000.

United States Environmental Protection Agency (USEPA). 2002. Pollution Prevention/Good Housekeeping for Municipal Operations Landscaping and Lawn Care. Office of Water. Office of Wastewater Management. On-line: http://www.epa.gov/npdes/menuofbmps/poll_8.htm

Efficient Irrigation SD-12

Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Irrigation water provided to landscaped areas may result in excess irrigation water being conveyed into stormwater drainage systems.

Approach

Project plan designs for development and redevelopment should include application methods of irrigation water that minimize runoff of excess irrigation water into the stormwater conveyance system.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Designing New Installations

The following methods to reduce excessive irrigation runoff should be considered, and incorporated and implemented where determined applicable and feasible by the Permittee:

- Employ rain-triggered shutoff devices to prevent irrigation after precipitation.
- Design irrigation systems to each landscape area's specific water requirements.
- Include design featuring flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
- Implement landscape plans consistent with County or City water conservation resolutions, which may include provision of water sensors, programmable irrigation times (for short cycles), etc.

- Design timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm water drainage system.
- Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider design features such as:
  - Using mulches (such as wood chips or bar) in planter areas without ground cover to minimize sediment in runoff
  - Installing appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant materials where possible and/or as recommended by the landscape architect

    Leaving a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible
  - Choosing plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth
- Employ other comparable, equally effective methods to reduce irrigation water runoff.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Trash Storage Areas SD-32

Description

Trash storage areas are areas where a trash receptacle (s) are located for use as a repository for solid wastes. Stormwater runoff from areas where trash is stored or disposed of can be polluted. In addition, loose trash and debris can be easily transported by water or wind into nearby storm drain inlets, channels, and/or creeks. Waste handling operations that may be sources of stormwater pollution include dumpsters, litter control, and waste piles.

Approach

This fact sheet contains details on the specific measures required to prevent or reduce pollutants in stormwater runoff associated with trash storage and handling. Preventative measures including enclosures, containment structures, and impervious pavements to mitigate spills, should be used to reduce the likelihood of contamination.

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Design requirements for waste handling areas are governed by Building and Fire Codes, and by current local agency ordinances and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code and ordinance requirements. Hazardous waste should be handled in accordance with legal requirements established in Title 22, California Code of Regulation.

Wastes from commercial and industrial sites are typically hauled by either public or commercial carriers that may have design or access requirements for waste storage areas. The design criteria in this fact sheet are recommendations and are not intended to be in conflict with requirements established by the waste hauler. The waste hauler should be contacted prior to the design of your site trash collection areas. Conflicts or issues should be discussed with the local agency.

Designing New Installations

Trash storage areas should be designed to consider the following structural or treatment control BMPs:

- Design trash container areas so that drainage from adjoining roofs and pavement is diverted around the area(s) to avoid run-on. This might include berming or grading the waste handling area to prevent run-on of stormwater.
- Make sure trash container areas are screened or walled to prevent off-site transport of trash.

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

- Use lined bins or dumpsters to reduce leaking of liquid waste.
- Provide roofs, awnings, or attached lids on all trash containers to minimize direct precipitation and prevent rainfall from entering containers.
- Pave trash storage areas with an impervious surface to mitigate spills.
- Do not locate storm drains in immediate vicinity of the trash storage area.
- Post signs on all dumpsters informing users that hazardous materials are not to be disposed of therein.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Maintenance Considerations

The integrity of structural elements that are subject to damage (i.e., screens, covers, and signs) must be maintained by the owner/operator. Maintenance agreements between the local agency and the owner/operator may be required. Some agencies will require maintenance deed restrictions to be recorded of the property title. If required by the local agency, maintenance agreements or deed restrictions must be executed by the owner/operator before improvement plans are approved.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Maintenance Bays & Docks SD-31

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Several measures can be taken to prevent operations at maintenance bays and loading docks from contributing a variety of toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to the stormwater conveyance system.

Approach

In designs for maintenance bays and loading docks, containment is encouraged. Preventative measures include overflow containment structures and dead-end sumps. However, in the case of loading docks from grocery stores and warehouse/distribution centers, engineered infiltration systems may be considered.

Suitable Applications

Appropriate applications include commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for vehicle maintenance and repair are governed by Building and Fire Codes, and by current local agency ordinances, and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code requirements.

Designing New Installations

Designs of maintenance bays should consider the following:

- Repair/maintenance bays and vehicle parts with fluids should be indoors; or designed to preclude urban run-on and runoff.
- Repair/maintenance floor areas should be paved with Portland cement concrete (or equivalent smooth impervious surface).

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

- Repair/maintenance bays should be designed to capture all wash water leaks and spills. Provide impermeable berms, drop inlets, trench catch basins, or overflow containment structures around repair bays to prevent spilled materials and wash-down waters form entering the storm drain system. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

- Other features may be comparable and equally effective.

The following designs of loading/unloading dock areas should be considered:

- Loading dock areas should be covered, or drainage should be designed to preclude urban run-on and runoff.

- Direct connections into storm drains from depressed loading docks (truck wells) are prohibited.

- Below-grade loading docks from grocery stores and warehouse/distribution centers of fresh food items should drain through water quality inlets, or to an engineered infiltration system, or an equally effective alternative. Pre-treatment may also be required.

- Other features may be comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Stormwater and non-stormwater will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and cannot be discharged directly to the storm drain or sanitary sewer system without the appropriate permit.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Section 5
Monitoring, Reporting, and Program Evaluation

Conducting a monitoring program, reviewing the monitoring information, evaluating BMPs, and record keeping and reporting are all important elements of the implementation phase of the SWPPP. The success of the SWPPP depends upon the thorough implementation of the monitoring plan and evaluation of the effectiveness of the plan elements once they have been implemented.

Monitoring, Reporting, and Evaluation Elements

- Conduct monitoring program
- Conduct record keeping and reporting
- Conduct annual site evaluation
  - Review monitoring information
  - Evaluate BMPs
  - Review and revise the SWPPP as necessary

5.1 Conduct Monitoring Program

The General Permit requires that a monitoring program be a component of the SWPPP. The program has the following objectives:

- To monitor the quality of the stormwater discharge
- To aid in SWPPP implementation
- To measure the BMP effectiveness

To meet these objectives the monitoring effort has these elements:

- Training
- Visual observations
- Stormwater monitoring
- Authorized non-stormwater discharges

5.1.1 Training

Familiarity with the requirements of the stormwater monitoring plan and competence in the techniques and protocols specified in the plan are essential to ensure that stormwater samples are collected in a manner that meets the goals of the plan, while protecting the health and safety of the monitoring team members. It is recommended that all stormwater monitoring personnel receive training prior to conducting any stormwater monitoring activities. Stormwater monitoring training should include the following basic elements:

- Review of the Monitoring Plan and Health and Safety Plan

- Classroom training session
- Field training and sampling simulation (dry run)
- Annual refresher training

5.1.2 Visual Observations

Visual observations of both stormwater and non-stormwater discharges should be made at all facilities to document the presence of any discolorations, odors, floating and suspended material, oil and grease, etc., and to identify the source of any pollutants and non-stormwater flows. Visual observations should be made under the leadership of the SWPPP Leader, with appropriate members of the Pollution Prevention Team, according to the following schedule:

- All drainage areas within the facility should be checked for the presence of unauthorized non-stormwater discharges on a quarterly basis, during daylight hours, on days with no stormwater discharges.
- All authorized non-stormwater discharges and their sources should be observed quarterly during daylight hours, on days with no stormwater discharges.
- One storm event per month during the wet season (October 1-May 30) should be visually observed during the first hour of discharge at all discharge locations. These observations are only required of stormwater discharges that occur during daylight hours that are preceded by at least three working days without stormwater discharges and that occur during scheduled facility operating hours.

The results of the visual observations should be recorded and include: the date of the observation, locations observed, observations, response taken to eliminate unauthorized non-stormwater discharges, and actions taken to reduce or prevent pollutants from contacting non-stormwater or stormwater discharges. Results are included in the Annual Report.

5.1.3 Stormwater Monitoring

Each facility should either conduct an individual monitoring plan or participate in a group-sampling program. A group-monitoring program may be developed either by an entity representing a group of similar facilities or by a local stormwater agency that holds its own NPDES permit. According to the General Permit, the monitoring plan is to contain the rationale and description of the visual observation methods, location, and frequency; and the analytical methods and corresponding method detection limits used to detect constituents.

Selection of sites for industrial stormwater monitoring will depend on many factors including the following:

Representativeness

It is important to select sites that are representative of typical site operations.

- Runoff from the facility should combine to form a definable runoff stream.

- The runoff stream should represent the full range of activities at the facility.
- Runoff from the facility should not combine with runoff from other sources.
- Adequate flow volume must be available for sample collection.

Personal Safety

Development of a health and safety plan is recommended. Site selection should insure monitoring personnel from the following potential hazards:

- Traffic
- Uneven or slippery footing surface
- Poor night visibility (lighting)

Site Access

Ease of monitoring site access for monitoring personnel and vehicles parking is essential. Also, for sites that require installation of sample collection or flow metering equipment, adequate equipment access for maintenance and monitoring activities must be available.

Equipment Security

Permanently installed monitoring equipment must be located at a site that will minimize potential vandalism and other possible damage.

Adequate Flow Volume

Monitoring sites should be configured such that adequate flow volume is present for sample collection. Hydraulic conditions should be well mixed and free flowing.

Utility Access

If automated monitoring equipment is required, electrical power should be readily available at selected monitoring sites. Additionally, telephone service may be required for off-site station controlling and data transfer.

Stormwater samples should be collected during the first hour of discharge from (1) the first storm event of the wet season, and (2) at least one other storm event in the wet season. If the first event is missed, sampling of two events during the wet season is still required. Furthermore, a justification for failing to sample the first event should be provided in the Annual Report. Sample collection is only required of stormwater discharges that occur during scheduled facility operating hours and that are preceded by at least three working days without stormwater discharge. Sample collection is not required if dangerous weather conditions are present (e.g., flooding, electrical storm, etc.), when stormwater discharges begin after scheduled facility operating hours or when stormwater discharges are not preceded by three working days without discharge. When the required samples are not collected due to these exceptions, an explanation must be provided in the Annual Report. Visual observations and sample collection may be conducted more than one hour after discharge begins if it is determined that the

monitoring objectives will be better satisfied. If this occurs, an explanation should be provided in the Annual Report.

Specific sampling and analysis requirements include the following:

- All sampling and sample preservation should be in accordance with the current edition of "Standard Methods for the Examination of Water and Wastewater".
- All monitoring instruments and equipment should be calibrated and maintained in accordance with manufacturers' specifications to ensure accurate measurements.
- All laboratory analyses should be conducted according to test procedures under 40 CFR Part 136, unless other test procedures have been specified by the RWQCB.
- Analyze samples for total suspended solids (TSS), pH, specific conductance, and total organic carbon (TOC). Oil and grease (O&G) may be substituted for TOC.
- Analyze toxic chemicals and other pollutants that are likely to be present in stormwater discharges. Any of these pollutants that are not detected in significant quantities after two consecutive sampling events may be eliminated from future sampling analysis until the pollutant is likely to be present again. (According to the definitions section of the General Permit, "significant quantities" is defined as the volume, concentration, or mass of a pollutant that can cause or threaten to cause pollution, contamination, or nuisance; adversely impact human health or the environment; and/or cause or contribute to a violation of any applicable water quality standards for the receiving water.)
- Other analytical parameters should be included based on the facility's standard industrial classification (see Table D of the General Permit).

Rules to Follow to Reduce Potential Sample Contamination

1. No smoking.
2. Never sample near a running vehicle. Do not park vehicles in immediate sample collection area (even non-running vehicles)
3. Always wear clean, powder-free nitrile gloves when handling composite bottles, lids, sterile grab sample bottles, tubing, or strainers.
4. Never touch the inside surface of a sample bottle or lid, even with gloved hands.
5. Never touch the exposed end of a sampling tube.
6. Never allow the inner surface of a sample bottle, lid, or sampling tube to be contacted by any material other than the sample water.
7. Never allow any object or material to fall into or contact the collected sample water.
8. Avoid allowing rain water to drip from rain gear or other surfaces into sample bottles.
9. Do not eat or drink during sample collection.
10. Do not breathe, sneeze or cough in the direction of an open sample bottle.

In addition to the requirements above, which are outlined in the General Permit, the following procedures are recommended to maximize the ability of sampling personnel to collect samples reliably and with minimal sample contamination.

- Before stormwater samples are collected, personnel must ensure the safety of such activities at each sampling location.

- Select the appropriate sample bottles and equipment for each parameter to be measured. As general guidelines, all sampling equipment and sample bottles used for trace metals determination should be nonmetallic and free from any material that may contain metals. Only high-density plastic or Teflon containers should be used for metals analytical sample storage bottles. All sampling equipment and sample bottles used for trace organics determination should be glass or Teflon. Nutrients and most "conventional" parameters may be sampled using plastic or glass bottles.

- Employ "clean" sampling techniques to minimize potential sources of sample contamination, particularly from trace pollutants. Experience has shown that when clean sampling techniques are used, detected concentrations of constituents tend to be lower.

5.2 Conduct Record Keeping and Reporting

Records of all stormwater monitoring information, inspections and visual observations, certifications, corrective actions and follow-up activities, and copies of all reports should be retained for a period of at least five years. These records should include:

- The date, place, and time of site inspections, sampling, visual observations, and measurements

- The individual(s) who performed the site inspections, sampling, visual observations, and measurements

- Flow measurements or estimates (as required by Section B.6 of the General Permit)

- The date and approximate time of analyses

- The individual who performed the analyses

- Analytical results, method detection limits, and the analytical techniques or methods used

- Quality assurance and quality control records and results

- Non-stormwater discharge inspections and visual observations and stormwater discharge visual observation records

- Visual observations and sample collection exception records

- All calibration and maintenance records of onsite instruments used

- All sampling and analysis exemption and reduction certifications and supporting documentation

- The records of any corrective actions and follow-up activities that resulted from the visual observations

It is also recommended that information regarding the rain event be collected. A nearby recording gage should be identified and used to document the start and stop times and date of precipitation event. Some industries may want to consider installing a recording gage at the monitoring site.

Photographs can be useful. Also keep a record of maintenance activities or any other BMPs that are of an "action" nature. It is easy to demonstrate that a BMP that involves a physical change, such as berming or covering, has been accomplished. But actions that relate to good housekeeping can only be demonstrated by record keeping. Keeping a record of catch basin cleaning, for example, also provides insight into how soon it takes for the catch basin sump to refill.

An Annual Report including the items listed below should be submitted by July 1 of each year to the Executive Officer of the appropriate RWQCB.

- Summary of visual observations and sampling results

- Evaluation of the visual observations and sampling and analysis results

- Documentation that the BMPs in the SWPPP are being implemented and properly maintained as necessary

- Laboratory reports (including detection limits for each analytical parameter)

- The Annual Comprehensive Site Compliance Evaluation Report (as described below)

- Documentation, including the justification, of any deviations from the General Permit requirements (if not already included in the Evaluation Report)

- Records

- Detection limits for each analytical parameter

5.3 Conduct Annual Site Evaluation

All facilities should conduct an annual comprehensive site compliance evaluation. It may be helpful to involve the Pollution Prevention Team (PPT) in this effort (see Section 2). The SWPPP should be revised within 90 days of the evaluation based on the evaluation and the revisions implemented. Evaluations should include the following:

- A review of the results of visual inspections of potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system

- A review of visual observation records, inspection records, and sampling and analysis results
- A review and evaluation of each BMP to determine whether it is adequate, properly implemented, and maintained
- A review of site activities to ascertain if change has occurred, and if so, whether new or modified BMPs are needed
- A review of the list of significant materials to ascertain if the list has changed, and if so, whether new or modified BMPs are needed
- A review of spills that have occurred over the past 12 months, with a determination of cause(s) and possible solutions, including modified or new BMPs
- A determination of whether each BMP must be modified, replaced, and whether additional BMPs are needed
- An evaluation report

Appendix J

Land Use Plan Policy Consistency Analysis Tables

Appendix J
Land Use Plan Policy Consistency Analysis Tables

Table J-1
PROJECT CONSISTENCY WITH SCAG CONNECT SOCAL 2020-2045 RTP/SCS GOALS

RTP/SCS Goal	Project Consistency
1. Encourage regional economic prosperity and global competitiveness	**Consistent.** The Project would provide an industrial use at a site zoned for and currently used for industrial uses. The area roadways proposed for use for Project truck traffic are designated truck routes in the City. The Project would contribute to overall regional economic prosperity by providing additional employment opportunities, utilizing local vendors and support service providers, and increasing the local tax base through sales.
2. Improve mobility, accessibility, reliability, and travel safety for people and goods	**Consistent.** The Project consists of warehouse uses on an existing developed site consistent with land use and zoning designations. The Project would provide a fulfillment center/warehouse in close proximity to regional transportation corridors to facilitate goods movement. Additionally, the Project would utilize an already developed site along one of the City's designated truck routes.
3. Enhance the preservation, security, and resilience of the regional transportation system	**Consistent.** The Project would utilize an already developed site along one of the City's designated truck routes in close proximity to several regional freeways, including Interstates 605, 5, 105, and 710.
4. Increase person and goods movement and travel choices within the transportation system	**Consistent.** The Project would utilize an already developed site along one of the City's designated truck routes and provide a fulfillment center/warehouse in close proximity to regional transportation corridors to facilitate goods movement.
5. Reduce greenhouse gas emissions and improve air quality	**Consistent.** The Project would be designed to achieve 2022 Title 24 energy standards, at a minimum, through implementation of energy-reduction measures, such as energy-efficient lighting and appliances, water-efficient appliances and plumbing fixtures, and water-efficient landscaping and irrigation. The Project would comply with South Coast Air Quality Management District (SCAQMD) rules to reduce air pollution emissions from construction and operation of the Project, including rules 402 (Nuisance), 403 (fugitive dust), and 1113 (architectural coatings).
6. Support healthy and equitable communities	**Consistent.** The Project is an industrial use on a site designated and zoned for industrial uses. As demonstrated in Section 4.2, *Air Quality,* the Project would not result in significant impacts to nearby sensitive receptors related to health and criteria air pollutants. The Project also would not create a

RTP/SCS Goal	Project Consistency
	significant hazard to the community through the use of acutely hazardous materials. No adverse health impacts to the community related to on-site contaminated soils or hazardous building materials would occur due to the ongoing remediation that would continue upon Project implementation under the oversight of the Los Angeles Regional Water Quality Control Board, as well as mitigation measures identified in Section 4,7, *Hazards and Hazardous Materials.* Environmental impacts and benefits resulting from the Project would occur to all populations within the surrounding community and would not fall disproportionately on areas of the community considered disadvantaged. As such, the Project would not detract from the health and equity of the community**.**
7. Adapt to a changing climate and support an integrated regional development pattern and transportation network	**Consistent.** The Project would occur on a site zoned and designated for industrial uses. The Project would replace existing older industrial metal/brick buildings with a new, modern concrete tilt-up building that would be constructed in accordance with the requirements of Title 24, which regulates green building practices and includes standards for planning and design, water efficiency, material conservation and resource efficiency, and environmental quality. The proposed building would incorporate several sustainability features such as solar and electric vehicle infrastructure and would achieve a LEED Silver certification. In addition, the Project site is in close proximity to several freeways to facilitate access and use of the regional transportation network.
8. Leverage new transportation technologies and data-driven solutions that result in more efficient travel	**Consistent.** The Project consists of an industrial use on a developed site zoned and designated for industrial uses. The Project would include electric vehicle charging infrastructure to support transportation technologies that provide more efficient travel. The Project also would implement a Transportation Demand Management (TDM) Program as mitigation (refer to Section 4.11, *Transportation*, that would include transportation programs such as ridesharing, transit incentives, and bicycle facilities to reduce regional vehicle miles traveled (VMT) and improve travel efficiency.
10. Promote conservation of natural and agricultural lands and restoration of habitats	**Consistent.** The Project is located on an existing industrial parcel that is completely developed and does not contain natural or agricultural lands, nor would it support restored habitat.

Table J-2
PROJECT CONSISTENCY WITH DOWNEY GENERAL PLAN VISION 2025 GOALS, POLICIES, AND PROGRAMS

General Plan Goal, Policy, or Program	Project Consistency
Land Use Element	
Goal 1.1. Provide sufficient land areas for uses that serve the needs of residents, visitors, and businesses. ***Policy 1.1.1.*** Maintain a balance of land uses. • Program 1.1.1.1. Discourage the over-concentration of a particular land use that will preclude the establishment of other uses needed to serve the community. • Program 1.1.1.3. Adopt floor-area ratios (FAR) or comparable method to address building intensity for each zoning classification. • Program 1.1.1.4. Discourage non-industrial uses into areas designated for industrial uses.	**Consistent.** The Project would continue the industrial use of the Project site, consistent with the existing General Plan Land Use and Zoning designations. The Project site is located in an existing industrial area and would maintain the balance of land uses within the City.
Goal 1.2. Advance livable community concepts. ***Policy 1.2.1.*** Promote livable communities concepts that allow added flexibility in addressing land use needs. • Program 1.2.1.1. Promote project designs that reduce dependency on vehicles and promote pedestrian, transit, and alternate modes of travel. • Program 1.2.1.6. Promote the placement of buildings at or near the public right-of-way with a primary or secondary entryway facing the sidewalk.	**Consistent.** While the Project would include truck traffic due to its warehouse uses, the Project does include components in support of this goal and policy. The Project site is located within one-quarter mile three Metro bus lines. The Project includes improved sidewalks with landscaping and parkway plantings along Hall Road and Stewart and Gray Road for the entire Project site frontage. Additionally, the proposed building would be placed near the public right-of-way on Stewart and Gray Road, with a primary entrance facing the sidewalk along Stewart and Gray Road.
Circulation Element	
Goal 2.1. Increase the capacity of the existing street system. ***Policy 2.1.2.*** Promote improvements in the street system through the development process. • Program 2.1.2.3. Reduce the number of driveway access points on streets. • Program 2.1.2.5. Discourage projects that generate high amounts of traffic onto local and collector streets. • Program 2.1.1.6. Identify and concentrate land uses with high traffic generation near major transportation corridors and public transit facilities.	**Consistent.** There are currently seven driveway access points to the site. Four occur along Stewart and Gray Road and three occur on Hall Road. The Project site would reduce the number of driveway access points to the site with two along Stewart and Gray Road and the existing three along Hall Road. While the Project would generate additional traffic trips, due to its warehouse/logistics uses, the Project is located in close proximity to several freeways (Interstates 605, 5 105, and 710), which would limit travel on local roadways. Truck traffic would utilize designated truck routes to access the Project site and freeways.

General Plan Goal, Policy, or Program	Project Consistency
Goal 2.2. Promote the use of alternative modes of travel, other than single-occupant vehicles, to relieve traffic congestion. ***Policy 2.2.1.*** Promote walking as an attractive alternative to vehicular transportation. • Program 2.2.1.1. Promote site development design that is safe and convenient to pedestrians. • Program 2.2.1.2. Provide sidewalks in new development and major remodeling consistent with the sidewalk Master Plan.	**Consistent.** Sidewalks are present on streets surrounding the Project site, providing pedestrian access to the site; however, the Project would provide improved sidewalks with landscaping and parkway plantings along Hall Road and Stewart and Gray Road for the entire Project site frontage. The Project site is located within one-quarter mile of three Metro bus lines, which would provide Project employees with access to alternative transportation modes. The Project would implement a TDM Program to reduce transportation VMT impacts, which would include measures to promote alternative transportation modes.
Policy 2.2.2. Promote bicycling as an attractive alternative to vehicular transportation. • Program 2.2.2.3. Promote the provision of bicycle racks at retail service and other businesses for use by customers and employees. • Program 2.2.2.4. Encourage the provision of showers, changing rooms, and bicycle storage areas at retail, office, industrial, and other businesses for use by employees.	**Consistent.** The Project would implement a TDM Program to reduce transportation VMT impacts, which would include measures to promote alternative transportation modes, including the provision of bicycle racks, bicycle storage areas, showers, and changing rooms.
Goal 2.3. Reduce adverse impacts from truck traffic. ***Policy 2.3.1.*** Promote the safe and efficient movement of truck traffic through the City. • Program 2.3.1.1. Enforce truck traffic to use designated truck routes in the City. • Program 2.3.1.5. Support truck mobility efforts to keep container truck traffic traveling through the region on freeways.	**Consistent.** The Project site is located in close proximity to several freeways (Interstates 605, 5 105, and 710) which would facilitate access to and use of regional freeways. Trucks would utilize the City's designated truck routes to access the freeways. The designated truck routes in the area include Stewart and Gray Road, which connects to both Woodruff Avenue and Firestone Boulevard to the east, both of which are also designated truck routes; Firestone Boulevard provides direct access to I-605 east of the Project site. Other designated truck routes include Bellflower Boulevard and Lakewood Boulevard to the west of the Project site; Lakewood Boulevard provides direct access to I-105 to the south of the Project site and to I-5 to the north of the Project site.

General Plan Goal, Policy, or Program	Project Consistency
Policy 2.3.2. Minimize negative impacts associated with truck traffic. • Program 2.3.2.1. Discourage truck parking on public streets. • Program 2.3.2.2. Maintain landscape islands on and/or adjacent to truck routes with mature specimen fully grown landscape screens to minimize noise, dust, and visual impacts. • Program 2.3.2.3. Promote property development designs along truck routes that minimize noise, dust, and visual impacts through the use of berms, landscape screening, walls, and other design features. • Program 2.3.2.4. Ensure that land uses generating high amounts of truck traffic provide compensation to the city for projected pavement wear of public streets.	**Consistent.** The Project would provide 255 trailer parking stalls, which is well in excess of the required 46 trailer stalls. Thus, the Project would not result in the need for truck parking on public streets. The Project would include landscaping and parkway plantings along Hall Road and Stewart and Gray Road (a designated truck route) for the entire Project site frontage. The Project would comply with City requirements, including compensation for projected pavement wear, if applicable.
Policy 2.3.3. Discourage land uses that generate high amounts of truck traffic. • Program 2.3.3.1. Discourage land uses that attract high amounts of truck traffic without corresponding benefits to the community. • Program 2.3.3.2. Provide discretionary approvals for land uses generating high amounts of truck traffic, including general warehouses, truck parking, truck company headquarters, and distribution centers.	**Consistent.** The Project consists of a new industrial building intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The proposed facility is intended to operate 24 hours a day, 7 days a week. The Project would result in increased truck traffic trips. Over a 24-hour period, the Project is forecast to result in an increase of 167 passenger car equivalent adjusted vehicles trips during a typical weekday, consisting of approximately 84 more inbound trips and 84 more outbound trips. These Project trips would not result in substantial congestion of local roadways. As discussed in Section 4.11, *Transportation*, analyzed intersections in the Project vicinity that are part of the City's Circulation Element roadway network would operate at acceptable conditions consistent with General Plan standards. The Project would provide additional industrial sector uses that provide goods movement services and employment opportunities for the community and region. The Project is subject to the City's discretionary approval process to identify and minimize potential impacts.

General Plan Goal, Policy, or Program	Project Consistency
Goal 2.5. Minimize the impacts from the lack of parking. ***Policy 2.5.1*** Provide for adequate parking supply to meet parking demands. • Program 2.5.1.4. Maximize off-street parking to minimize demands on on-street parking. • Program 2.5.1.5. Minimize parking demand spillover effects onto adjacent streets and properties. • Program 2.5.1.8. Promote safe and efficient design for parking areas. • Program 2.5.1.9. Provide adequate on-site loading areas so that parking areas are not impacted by loading activities.	**Consistent.** The Project would provide adequate on-site parking in excess of City requirements such that it would not increase the demand for on-street parking. The Project would require 670 parking stalls for the proposed warehouse use (including the office portion of the warehouse), and would provide 544 parking stalls, plus an additional 139 stalls in lieu of trailer parking, resulting in a total of 683 parking stalls. Additionally, required trailing parking is 46 trailer parking stalls, but the Project would provide 255 trailer parking stalls.
Housing Element	
No goals, policies, or programs from the Housing Element are applicable to the proposed Project.	
Conservation Element	
Goal 4.1. Provide an adequate water supply for the needs of residents, workers, and visitors to the City. ***Policy 4.1.1.*** Promote conservation of water resources. • Program 4.1.1.4. Encourage the use of reclaimed water, or re-use of water on-site, for new and redevelopment projects. • Program 4.1.1.6. Promote drought-tolerant plants, rain sensors, moisture sensors and other water conservation methods for plant landscaping projects. • Program 4.1.1. 7. Promote water conserving appliances, equipment, and plumbing fixtures for new developments and remodels.	**Consistent.** The Project would comply with California Code of Regulations Title 24, and would utilize low-flow faucets, toilets, and irrigation. Drought-tolerant landscaping would be utilized in the Project design and would be installed around the building and at the Project site's perimeter.

General Plan Goal, Policy, or Program	Project Consistency
Goal 4.2. Prevent the contamination of groundwater. ***Policy 4.2.1.*** Monitor and improve groundwater quality. • Program 4.2.1.3. Coordinate with local, regional, state, and federal efforts to protect the groundwater supply and enhance groundwater quality. • Program 4.2.1.4. Discourage business practices and land use classes that contribute to soil contamination that degrade groundwater quality.	**Consistent.** The Project site is the subject of ongoing groundwater monitoring, due to existing volatile organic compound (VOC) contamination in the groundwater beneath the Project site. Groundwater monitoring wells are present at the Project site. Ongoing monitoring and remediation would continue upon Project implementation under the oversight of the Los Angeles Regional Water Quality Control Board, as well as implementation of mitigation measures identified in Section 4,7, *Hazards and Hazardous Materials,* to improve groundwater quality. The Project would develop and submit a project-specific Stormwater Pollution Prevention Plan (SWPPP) to comply with the requirements of the National Pollutant Discharge Elimination System (NPDES) Construction General Permit and would implement Best Management Practices (BMPs) to minimize pollutant release during Project construction. Further, to reduce the potential for pollutants from operational activities to enter groundwater or surface waters, the Project would implement measures in accordance with local and regional water quality requirements, including an on-site stormwater treatment system.
Goal 4.3. Reduce the contaminant level at beaches and oceans. ***Policy 4.3.1.*** Reduce the contaminant level of stormwater and urban runoff generated within Downey. • Program 4.3.1.1. Provide treatment of runoff generated by properties on-site before release into the storm drain system. • Program 4.3.1.4. Encourage proper storage and handling of construction materials to avoid the contact of pollutants with storm water runoff during construction.	**Consistent.** The Project would incorporate treatment of stormwater runoff. During construction, the Project SWPPP would identify BMPs, which may include the use of silt fences, sandbag barriers, and/or ground covers to control stormwater runoff. During the long-term operation of the Project, surface runoff would be collected for the two drainage management areas (DMAs) on the Project site, via a series of drop inlets. Within each DMA, drop inlets would route runoff to an underground detention vault prior to entering an on-site stormwater treatment system with a 96-hour drawdown time. After treatment, flows would be pumped off-site to spill to grade at the Project driveway, discharging into the City stormwater system.

General Plan Goal, Policy, or Program	Project Consistency
Goal 4.4. Preserve trees wherever possible. ***Policy 4.4.1.*** Preserve trees on private and public property. • Program 4.4.1.1. Discourage the removal of trees on private and public property. • Program 4.4.1.2. Adopt a tree preservation ordinance requiring a permit to remove mature trees.	**Consistent.** The Project site is fully developed and contains very few trees. Approximately half a dozen trees are located in the northern portion of the site, around the northern part of the building at 9300 Hall Road. These trees would be removed to accommodate the Project. Additional trees are present along the Project site boundary with Hall Road, including six mature trees that would remain in place, along northern segment of the Project boundary between the western Project boundary and the western driveway to Hall Road. For the portion of the Project boundary along Hall Road, between the western driveway to Hall Road and Hall Road/Woodruff Avenue intersection, there are approximately 15 trees that would be removed; however, these trees are smaller in size than the trees to be retained, and are scattered at uneven intervals along the Project boundary. These would be removed and replaced with 23 camphor trees which would provide a more consistent and uniform landscape along this Project boundary. Further, the Project landscape plan includes new trees lining the southern Project boundary, and throughout the Project parking areas fronting Stewart and Gray Road. In total, the Project would include removal of approximately 21 trees; retaining 6 existing trees; and planting 18 48-inch box trees, 18 36-inch box trees, 119 24-inch box trees, and 21 15-gallon trees. The Project would be required to obtain a tree removal permit from the City to remove street trees as part of Project implementation. While the Project would result in the removal of trees to implement the Project, it does retain the largest trees in the northwestern corner of the site.

General Plan Goal, Policy, or Program	Project Consistency
Goal 4.5. Encourage activities that improve air quality. ***Policy 4.5.1.*** Pursue every available means and opportunities to reduce air particulate and pollutants within the city and region. • Program 4.5.1.2. Support regional and subregional efforts in strategically managing goods movements in order to reduce emissions from truck traffic. • Program 4.5.1.3. Reduce air particulate and other pollutants created by, but not limited to the operation of diesel engine and increased truck traffic from marine and port operations in the Long Beach and Los Angeles ports and City operations, especially along the 1-710 freeway corridor. • Program 4.5.1.4. Encourage alternative modes of travel, such as walking and cycling, to vehicle use and alternative modes of employment, such as telecommuting and home-based businesses, to reduce emissions associated with vehicle use.	**Consistent.** The Project would comply with South Coast Air Quality Management District (SCAQMD) rules to reduce air pollution emissions from construction and operation of the Project, including rules 402 (Nuisance), 403 (fugitive dust), and 1113 (architectural coatings). A Project-specific air quality impact analysis that includes analysis of construction and operational air quality impacts has been prepared for the Project and is the basis of the analysis contained in Section 4.2, *Air Quality*. As discussed therein, the Project would not result in significant air quality impacts. Refer to Circulation Element Goal 2.2 with regard to supporting alternative transportation modes.
Goal 4.6. Conserve energy resources. ***Policy 4.6.1.*** Promote the conservation of energy by residents and businesses to conserve energy. • Program 4.6.1.1. Provide incentives for people to use renewal energy sources such as solar energy.	**Consistent.** The Project would remove existing on-site buildings and replace them with a newly constructed, single building, which would incorporate updated technology, including improved energy efficiency. The Project would be constructed consistent with the requirements of Title 24, which regulates green building practices and includes standards for planning and design, water efficiency, material conservation and resource efficiency, and environmental quality. The proposed building would incorporate several sustainability features such as solar and electric vehicle infrastructure and would achieve a LEED Silver certification.
Goal 4. 7. Provide efficient and low-cost solid waste disposal. ***Policy 4.7.1.*** Reduce the amount of solid waste generated within the City. • Program 4.7.1.2. Encourage recycling and source reduction to divert recyclable and reusable materials from the solid waste sent to landfills.	**Consistent.** The proposed Project would be required to comply with applicable practices enacted by the City under the California Integrated Waste Management Act of 1989 (AB 939) and any other applicable local, State, and federal solid waste management regulations. The DMC requires that 100 percent of inert debris and at least 50 percent of the remaining construction and demolition debris generated during a construction or demolition project, be diverted from landfill. The Project would comply with applicable regulatory requirements regarding solid waste.

General Plan Goal, Policy, or Program	Project Consistency
Safety Element	
Goal 5.2. Protect the health, safety, and welfare of residents, workers, and visitors from the improper use, storage, handling, and disposal of hazardous materials. ***Policy 5.2.1.*** Monitor the generation, storage, and disposal of hazardous materials. • Program 5.2.1.1. Monitor inactive, active, or potential hazardous material contaminated properties, including the closed landfill at Rio San Gabriel Park for odor and toxic gases.	**Consistent.** The Project does not propose handling substantial amounts of hazardous materials. Some hazardous substances typical of warehouse operations would be used (e.g., cleaning agents, oils) but not the type or quantity that would create a significant health or safety risk. Use of hazardous materials would occur in compliance with applicable regulatory requirements. Due to the historic use of the Project site for manufacturing activities, and associated use of hazardous materials in various manufacturing processes, the soil and groundwater beneath the site have been exposed to various constituents that are now the subject of a voluntary cleanup effort by the property owner. No adverse health impacts to the community related to on-site contaminated soils or hazardous building materials would occur due to the ongoing remediation that would continue upon Project implementation under the oversight of the Los Angeles Regional Water Quality Control Board, as well as mitigation measures identified in Section 4,7, *Hazards and Hazardous Materials.*
Goal 5.3. Maintain and improve fire protection services. ***Policy 5.3.1.*** Provide adequate response to fire emergencies. • Program 5.3.1.2. Promote adequate widths on travel lanes along street and alleys to accommodate emergency vehicles. • Program 5.3.1.3. Promote the design of private properties with fire lane width and turnaround capability appropriate for emergency vehicle access.	**Consistent.** The Project would provide a series of 26-foot-wide fire lanes throughout the Project site to allow for emergency vehicle access.
Goal 5.5. Address the potential hazards associated with seismic activity. ***Policy 5.5.1.*** Minimize damage in the event of a major earthquake. • Program 5.5.1.4. Ensure the preparation of geotechnical reports for developments to address soil liquefaction hazards.	**Consistent.** The Project would be designed and constructed in compliance with the Downey Building Code and the California Building Code to ensure hazards from seismic activity are minimized. Additionally, Project design and construction would incorporate Project-specific geotechnical recommendations for site preparation and building construction.

General Plan Goal, Policy, or Program	Project Consistency
Goal 5.6. Minimize potential adverse impacts from flooding. ***Policy 5.6.2.*** Minimize the potential for flooding due to stormwater generation. • Program 5.6.2.1. Minimize increases in the amount of stormwater generated by existing and proposed land uses.	**Consistent.** The Project would result in a decrease in stormwater runoff as compared to the existing condition. The Project would decrease impervious surfaces at the Project site by 1.13 acres, reducing the surface runoff generated by stormwater. Runoff would be collected and treated on site prior to release to the City stormwater system.
Goal 5. 7. Reduce the likelihood of traffic accidents. ***Policy 5. 7 .1.*** Promote traffic safety along streets. • Program 5. 7.1.3. Promote street design that impedes the use of local residential streets as bypass and through routes. • Program 5. 7.1.6. Promote the parking and access agreements and parking consolidation to reduce the number of driveway access points on streets. • Program 5.7.1.7. Provide for vehicles to enter onto streets in a perpendicular manner. • Program 5.7.1.8. Promote designs to provide for vehicles to enter onto streets in a forward manner.	**Consistent.** Project trucks would utilize the City's designated truck routes to access the freeways and would not use local residential streets as bypass and through routes. Parking would be provided on site consistent with the City's parking standards. Vehicles entering and exiting the Project site would enter the streets in a perpendicular, forward manner utilizing one of the five Project driveways.
Policy 5.7.2. Promote the installation of sidewalks and walkways to improve traffic safety. • Program 5.7.2.2. Encourage the installation of sidewalks in new developments and major remodeling consistent with the sidewalk Master Plan. • Program 5.7.2.4. Promote internal walkways and bikeways on private property that are safe and convenient to bicyclists.	**Consistent.** Sidewalks are present on all streets surrounding the Project site; however, the Project would provide improved sidewalks with landscaping and parkway plantings along Hall Road and Stewart and Gray Road for the entire Project site frontage.
Noise Element	
Goal 6.1. Protect persons from exposure to excessive noise. ***Policy 6.1.1.*** Minimize noise impacts onto noise-sensitive uses. • Program 6.1.1.1. Enforce noise standards. • Program 6.1.1.2. Ensure that new developments within areas with exterior noise at unacceptable levels are designed to maintain interior noise levels at acceptable levels. • Program 6.1.1.3. Continue to enforce provisions prohibiting construction activities during noise-sensitive hours.	**Consistent.** The Project consists of a warehouse/ logistics use that would operate 24 hours per day that is located in an area comprised of various uses, including noise-sensitive land uses (NSLUs). The closest NSLU to the Project site is a single-family home located approximately 240 feet east of the Project site, across Hall Road, Woodruff Avenue, and the Union Pacific Railroad corridor. In addition, multi-family residences are located approximately 250 feet southwest of the Project site, across Stewart and Gray Road. There are also single-family residences located approximately 300 feet west of the Project site and multi-family residences located approximately 320 feet east of the Project site, but these are substantially shielded from noise on the Project site by large existing industrial/commercial buildings.

General Plan Goal, Policy, or Program	Project Consistency
	As discussed in Section 4.10, *Noise*, the Project would not result in significant noise impacts with regard to construction traffic noise, on-site operational noise, and operational traffic noise. The Project would also comply with City requirements for construction-related noise, including adhering to the requirements of Section 4606.5 of the DMC, which prohibits construction between the hours of 9:00 p.m. and 7:00 a.m. unless granted a permit from the City. Project construction would occur within the allowable daytime hours with the exception of concrete pours for the building slabs and tilt-up walls, which are typically done at night for these types of structures primarily due to temperature/weather conditions. The Project includes a special permit request from the City for limited nighttime construction activities for concrete pours. As detailed in Section 4.10, noise levels at some of the nearby NSLUs may be in excess of 10 dBA over existing ambient levels during the limited concrete pours. Mitigation is identified that includes advanced notification to NSLUs within a 300-foot radius of the Project site of the anticipated nighttime construction activities and a noise complaint line. While the issuance of a special permit, which would have specific provisions/requirements, and implementation of this mitigation measure would minimize temporary construction noise impacts to surrounding NSLUs, impacts would be considered significant and unavoidable because it cannot be guaranteed that nighttime noise levels would be reduced to below 10 dBA over existing ambient levels. The Project, however, would be consistent with this goal because nighttime construction activities would be conducted in accordance with City provisions/ procedures per the DMC and would implement measures to reduce/minimize noise impacts.

General Plan Goal, Policy, or Program	Project Consistency
Goal 6.2. Protect persons from exposure to excessive noise generated by various modes of transportation. ***Policy 6.2.1.*** Reduce noise generated by vehicular traffic. • Program 6.2.1.2. Enforce regulations to require truck traffic to use designated truck routes in the City.	**Consistent.** As discussed in Section 4.10, *Noise*, the Project would not result in significant noise impacts with regard to construction traffic noise or operational traffic noise. Project trucks would utilize the City's designated truck routes to access the freeways. The designated truck routes in the area include Stewart and Gray Road, which connects to both Woodruff Avenue and Firestone Boulevard to the east, both of which are also designated truck routes; Firestone Boulevard provides direct access to I-605 east of the Project site. Other designated truck routes include Bellflower Boulevard and Lakewood Boulevard to the west of the Project site; Lakewood Boulevard provides direct access to I-105 to the south of the Project site and to I-5 to the north of the Project site.
Goal 6.3. Minimize noise impacts on noise-sensitive land uses. ***Policy 6.3.1.*** Minimize the amount of noise generated by land uses. • Program 6.3.1.3. Concentrate land uses that generate high amount of traffic at locations where local residential streets will not be used as through traffic routes, thus creating more traffic-related noise. • Program 6.3.1.5. Discourage loading doors, windows, and other openings on buildings from facing residential and other noise-sensitive land uses. • Program 6.3.1.6. Discourage the placement of air conditioning equipment, electric generators, or other noise-generating equipment in close proximity to adjacent properties. • Program 6.3.1.7. Encourage that activities be maintained indoors to reduce noise impacts onto adjacent properties. • Program 6.3.1.9. Concentrate construction activities producing the most noise during midday hours to minimize impacts onto nearby residents.	**Consistent.** As discussed in Section 4.10, *Noise*, the Project would not result in significant noise impacts with regard to construction traffic noise, on-site operational noise, and operational traffic noise. Project trucks would utilize the City's designated truck routes to access the freeways and would not utilize local residential streets for through traffic routes. The Project would occur on an existing industrial site, and is not directly adjacent to residential or other NSLUs and thus, would not have loading doors, windows, and other openings facing NSLUs. On-site noise-generating equipment, such as HVAC units, refrigeration condensers, would be placed on rooftops and not in close proximity to adjacent properties. Besides loading at the docks, proposed operational activities would be conducted within the interior of the proposed building. As previously stated, operational noise impacts were assessed as less than significant and would not adversely impact adjacent properties. With regard to construction noise, the noisiest anticipated construction activity would be during site preparation and demolition of the existing buildings, which would occur during the allowable daytime hours.
Open Space Element	
No goals, policies, or programs from the Open Space Element are applicable to the proposed Project.	

General Plan Goal, Policy, or Program	Project Consistency
Design Element	
Goal 8.1. Promote quality design for new, expanded, and remodeled construction. ***Policy 8.1.1.*** Promote architectural design of the highest quality. • Program 8.1.1.1. Discourage construction with architectural design of poor quality. • Program 8.1.1.5. Encourage applicants to use licensed professionals to prepare architectural and landscaping plans. • Program 8.1.1.6. Encourage developments to be "internally compatible" in architectural design. • Program 8.1.1.8. Promote good quality sign design.	**Consistent.** The Project would remove the existing structures, which are older metal and brick buildings with an overall inconsistent design themes, and are surrounded by extensive parking and fencing. The new structure would provide a more cohesive visual character compared to the existing condition. The Project would improve visual quality from public viewpoints by removing security fencing, providing a single building with modernized architectural design, and installing landscaping within and at the borders of the Project site.
Goal 8.3. Promote the enhancement of the streetscape. ***Policy 8.3.1.*** Enhance the views of property from public streets to exhibit a positive image. • Program 8.3.1.1. Promote prevailing street yard setbacks for buildings consistent with adjacent properties. • Program 8.3.1.2. Maximize the landscaped setback on street yard setbacks. • Program 8.3.1.3. Minimize the amount of pavement and other non-plant material along the street yard setbacks. • Program 8.3.1.5. Discourage security devices and fence/wall designs that portray an image that the community is unfriendly and uninviting.	**Consistent.** The Project would improve visual quality of the site from public viewpoints (adjacent Hall Road and Stewart and Gray Road) by removing security fencing, providing a single building with modernized architectural design, and installing landscaping within and at the borders of the Project site. The proposed landscaping would provide trees along the northern and southern Project boundaries, adjacent to Hall Road and Stewart and Gray Road, enhancing the views of the Project site from these public roads.
Policy 8.3.3. Promote the installation of new trees. • Program 8.3.3.1. Promote the installation of new trees throughout the City, but especially where visible from the street.	**Consistent.** Trees would be placed along the northern and southern Project boundaries, adjacent to Hall Road and Stewart and Gray Road. Additionally, new trees would be placed in the northern and southern portions of the Project site, within sparking areas, around building entrances, and along the southern wall of the proposed building.

General Plan Goal, Policy, or Program	Project Consistency
Goal 8.4. Enhance Downey's cultural resources. ***Policy 8.4.1.*** Identify the city's cultural resources. • Program 8.4.1.1. Conduct a survey to identify historic and architecturally significant structures, locations, and archeological resources. • Program 8.4.1.2. Seek listing for appropriate properties on the National Register of Historic Places and the California State Register of Historic Resources.	**Consistent.** A Cultural Resources Report has been prepared for the Project, which included a survey, records search, and an evaluation of the existing on-site buildings to identify if cultural resources are present on or adjacent to the site. Based on the results of this analysis, the Project would not impact any known cultural resources. Mitigation measures are identified in Section 4.3, Cultural Resources, to address unknown subsurface resources if encountered during Project construction.
Economic Development	
Goal 9.1. Attract and retain businesses. ***Policy 9.1.1.*** Develop programs to attract and retain businesses. • Program 9.1.1.5. Continue the revitalization of commercial and industrial corridors.	**Consistent.** The Project would attract a new business to the Project site, which is in an existing industrial area. The Project would revitalize the site with the new proposed structure, eliminating the piece-meal appearance of the site caused by multiple older buildings, outdoor storage, and fencing, and would provide a cohesive development, in support of revitalizing this industrial portion of the City.
Goal 9.2. Promote Downey as an employment center. ***Policy 9.2.1.*** Promote job-generating land uses. • Program 9.2.1.1. Discourage nonresidential land uses that do not produce jobs. • Program 9.2.1.2. Promote employment centers that have potential to serve as catalyst for the creation of additional jobs. • Program 9.2.1.3. Promote employment that increases the daytime population of the city creating customer demand for other businesses.	**Consistent.** The Project would continue to provide jobs associated with industrial land uses at the Project site. The Project is expected to create approximately 300 construction jobs and approximately 250 permanent jobs.
Policy 9.2.2. Promote employment in various economic sectors to shield against business cycles. • Program 9.2.2.1. Promote a diversified employment base with jobs in sectors in addition to retail sales.	**Consistent.** The Project would continue to provide jobs associated with industrial land uses at the Project site. The Project is expected to create approximately 300 construction jobs and approximately 250 permanent jobs.
Goal 9.3. Ensure the continued fiscal balance of the community. ***Policy 9.3.1.*** Balance the maximization of revenue generation with costs for providing services. • Program 9.3.1.1. Encourage land uses that generate property tax and sales tax revenue.	**Consistent.** The Project consists of a land use that would continue to generate property tax and sales tax revenue.

This page intentionally left blank

Appendix K

Noise and Vibration Report

HELIX Environmental Planning

Prologis Stewart and Gray Road Warehouse Project

Noise and Vibration Report

October 2023 | 04967.00001.001

Submitted to:

City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Prepared for:

Prologis, Inc.
2141 Rosecrans Avenue,
Suite 1151
El Segundo, CA 90245

Prepared by:

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

This page intentionally left blank

TABLE OF CONTENTS

Section **Page**

EXECUTIVE SUMMARY ES-1
1.0 INTRODUCTION 1
1.1 Project Location 1
1.2 Project Description 1
1.3 Construction Activities and Phasing 1
2.0 ENVIRONMENTAL SETTING 2
2.1 Noise and Sound Level Descriptors and Terminology 2
2.2 Groundborne Vibration Descriptors and Terminology 3
2.3 Noise and Vibration Sensitive Land uses 3
2.4 Regulatory Framework 3
2.4.1 California Noise Control Act 3
2.4.2 City of Downey Municipal Code 4
2.4.3 City of Downey General Plan Noise Element 5
2.5 Existing Conditions 5
2.5.1 Surrounding Land Uses 6
2.5.2 Existing Noise Sources 6
3.0 METHODOLOGY, ASSUMPTIONS, AND THRESHOLDS 7
3.1 Equipment and Methodology 7
3.1.1 Noise Modeling Software 7
3.2 Assumptions 7
3.2.1 Construction 7
3.2.2 Operation 8
3.3 Guidelines for the Determination of Significance 11
4.0 IMPACTS 12
4.1 Issue 1: Excessive Noise Levels 12
4.1.1 Temporary Construction Noise 12
4.1.2 Construction Traffic Noise 14
4.1.3 Warehouse Operational Noise Generation 14
4.1.4 Operational Off-Site Transportation Noise Generation 16
4.1.5 Significance of Impacts 18

TABLE OF CONTENTS (cont.)

Section **Page**

4.1.6 Mitigation Framework 18
4.1.7 Significance After Mitigation 19
4.2 Issue 2: Excessive Vibration 19
4.2.1 Construction Vibration 19
4.2.2 Operational Vibration 20
4.2.3 Significance of Impacts 20
4.2.4 Mitigation Framework 20
4.2.5 Significance After Mitigation 20
4.3 Issue 3: Airport Noise Exposure 20
4.3.1 Significance of Impacts 21
4.3.2 Mitigation Framework 21
4.3.3 Significance After Mitigation 21
5.0 LIST OF PREPARERS 21
6.0 REFERENCES 22

LIST OF APPENDICES

A Mechanical Equipment Data Sheets
B RCNM Output
C CadnaA Output

LIST OF FIGURES

No. **Title** **Follows Page**

1 Regional Location 2
2 Aerial Photograph 2
3 Site Plan 2
4 Receiver Locations 4

TABLE OF CONTENTS (cont.)

LIST OF TABLES

No.	Title	Page
1	City of Downey Exterior Noise Limits	4
2	2004 Transportation Noise Contours	6
3	Stationary Refrigeration Unit Fan Noise Data	9
4	Condenser Noise Data	10
5	PM Peak Hour Traffic Volumes	10
6	Construction Equipment Noise Levels	13
7	Daytime Operational Noise	15
8	Nighttime Operational Noise	16
9	Existing Off-Site Traffic Noise Levels	17
10	Cumulative (Year 2024) Off-Site Traffic Noise Levels	17

This page intentionally left blank

Acronyms and Abbreviations

ADT	average daily trips
CadnaA	DataKustic Computer Aided Noise Abatement model
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
City	City of Downey
CNEL	Community Noise Equivalent Level
CY	cubic yard
dB	decibel
dBA	A-weighted decibel
hp	horsepower
HVAC	heating, ventilation, and air conditioning
Hz	Hertz
I-	Interstate
kHz	kilohertz
L_{DN}	Day-Night sound level
L_{EQ}	time-averaged noise level
LLG	Linscott, Law & Greenspan
L_{MAX}	maximum noise level
mph	miles per hour
mPa	micro Pascal
NSLU	noise sensitive land use
PPV	peak particle velocity
RCNM	Roadway Construction Noise Model
RPM	revolutions per minute
SF	square foot/feet
SPL	sound pressure level
STC	Sound Transmission Class
S_{WL}	Sound Power Level
TIS	Transportation Impact Study
TNM	Traffic Noise Model
TRU	transport refrigeration unit
USDOT	U.S. Department of Transportation

This page intentionally left blank

EXECUTIVE SUMMARY

This report assesses potential construction and operational noise impacts associated with Prologis Stewart and Gray Road Warehouse Project (project) located in the City of Downey, (City) California. The project would replace the existing businesses on the project site, remove five existing buildings totaling approximately 433,000 square feet (SF), and construct and operate an approximately 535,685-SF industrial concrete tilt-up building for warehouse/logistics uses. The new industrial building would be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. Approximately 95 percent of the warehouse would be high cube fulfillment and the remaining 5 percent would be for cold storage (i.e., refrigerated warehouse space).

Per the City Municipal Code, construction noise is exempt from the provisions of City Noise Ordinances provided a valid permit for such construction has been obtained from the City and the construction activity does not occur outside the hours of 7 a.m. to 9 p.m. However, construction activity which results in a 10 dBA or more increase in ambient noise levels would be potentially significant. Anticipated site preparation/demolition and earthmoving activities would generate temporary elevated noise levels for residential uses approximately 290 feet south of the project site. Project site preparation/demolition and earthmoving noise would not result in a significant increase over daytime ambient noise levels. However, nighttime site preparation/demolition and earthmoving could result in a potentially significant increase in ambient noise levels for the residences south of the project site. Due to potentially high daytime temperatures, pouring of concrete for the project building and sidewalks could be required to occur at night. Nighttime concrete pouring work could result in a potentially significant temporary construction noise increase over ambient noise levels for residences within 300 feet of the project site. Mitigation measure NOI-01 would limit project construction to the hours between 7 a.m. and 9 p.m., in accordance with the City Noise Ordinance, and prohibit construction on Sundays and City recognized holidays. If nighttime concrete pouring work is required, mitigation measure NOI-01 requires prior notification of all affected residences within 300 feet of the project site, and the logging of noise complaints. While mitigation measure NOI-01 would inform residents of the potential timing and duration of disturbance, the mitigation would not reduce the project construction noise to acceptable limits. Project temporary construction noise impacts would therefore be significant and unavoidable.

Operational noise sources would include ventilation and refrigeration equipment on the project's rooftop, trucks circulating on the project site, transport refrigeration units (TRUs) used on the project site, and loading docks (truck idling and truck backup alarms). Operational noise produced on the project site would not exceed the City daytime or nighttime noise standards measured at surrounding land uses. Noise generated by project traffic would not increase noise levels on nearby roadways by significant amounts. Therefore, project operational noise impacts would less than significant.

Project construction would not result in significant vibrations affecting nearby residents or damaging nearby buildings. Project operations would not be a significant source of vibrations. Therefore, project vibration impacts would be less than significant.

Although aircraft overflights are common in the Downey area, particularly overflights by commercial aircraft approaching Los Angeles International Airport, the project site is not located within the influence area or the noise contours for any area airports. Therefore, persons residing or working in the project area would not be exposed to substantial noise from airports or aircraft.

This page intentionally left blank

1.0 INTRODUCTION

This report assesses the potential noise impacts that would be associated with construction noise, operational noise, and project-generated traffic noise for the Prologis Stewart and Gray Road Warehouse Project (project). The analysis includes a description of existing conditions in the project vicinity, an assessment of potential impacts associated with project construction, and an evaluation of project operational impacts. Analysis within this report addresses the relevant issues listed in Appendix G of the California Environmental Quality Act (CEQA) Guidelines.

1.1 PROJECT LOCATION

The approximately 29.16-acre project site is located in the southeastern portion of the City of Downey (City) in southwestern Los Angeles County. The project site is located approximately ten miles southeast of downtown Los Angeles and nine miles northwest of the County of Orange. Regional access is provided via the following freeways: the Santa Ana Freeway (Interstate 5 [I-5]), the San Gabriel Freeway (I-605), the Century Freeway (I-105), and the Long Beach Freeway (I-710). Primary vehicular access to the project site is provided by Stewart and Gray Road and Hall Road. See Figure 1, *Regional Location* and Figure 2, *Aerial Photograph*.

1.2 PROJECT DESCRIPTION

The project would remove existing buildings totaling approximately 433,000 square feet (SF) on the project site and construct and operate an approximately 535,685 SF industrial concrete tilt-up building for warehouse/logistics uses. The project would include 683 auto parking spaces, 255 trailer and/or container parking spaces and 109 dock loading doors. The new industrial building would be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. Approximately 95 percent of the warehouse (484,605 SF) would be high cube fulfillment and the remaining 5 percent (26,785 SF) would be for cold storage (i.e., refrigerated warehouse space). The facility would also include 20,000 SF of office area and 25,000 SF of mezzanine area within the 535,685-SF building. On-site activities would include storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery; and general industrial/warehouse with refrigeration and cold storage component for the purposes of receiving, storing, shipping of food and/or beverage products. The office space would be used for office uses ancillary to the warehouse operations. See Figure 3, *Site Plan*. The proposed facility would operate 24 hours a day, seven days a week. The project would also include off-site improvements within the right-of-way of Hall Road and Stewart and Gray Road along the project's roadway frontage. Off-site improvements would include underground utilities, project site driveway access, sidewalks, curbs and gutters, landscaping, and lighting.

1.3 CONSTRUCTION ACTIVITIES AND PHASING

Construction of the Project would begin in Spring 2024 with demolition/site preparation to remove all existing on-site structures, paving, and other improvements. Demolition/site preparation would last approximately 4 to 5 months. Following demolition/site preparation, grading, off-site improvements, construction, and paving of the proposed new buildings would begin in late spring 2024 and continue for approximately 14. Construction activities would finish in Spring 2025. Demolition and site preparation

would include the removal of the existing structures on the site totaling approximately 433,000 SF. Approximately 75,000 cubic yards (CY) of soil would be exported from the site during grading.

2.0 ENVIRONMENTAL SETTING

2.1 NOISE AND SOUND LEVEL DESCRIPTORS AND TERMINOLOGY

All noise level or sound level values presented herein are expressed in terms of decibels (dB), with A-weighting (dBA) to approximate the hearing sensitivity of humans. Time-averaged noise levels are expressed by the symbol L_{EQ}, with a specified duration. The Community Noise Equivalent Level (CNEL) is a 24-hour average, where noise levels during the evening hours of 7:00 p.m. to 10:00 p.m. have an added 5 dBA weighting, and sound levels during the nighttime hours of 10:00 p.m. to 7:00 a.m. have an added 10 dBA weighting. This is similar to the Day Night sound level (L_{DN}), which is a 24-hour average with an added 10 dBA weighting on the same nighttime hours but no added weighting on the evening hours. Sound levels expressed in CNEL are always based on dBA. These metrics are used to express noise levels for both measurement and municipal regulations, as well as for land use guidelines and enforcement of noise ordinances.

Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a liquid or gaseous medium (e.g., air) to a hearing organ, such as a human ear. Noise is defined as loud, unexpected, or annoying sound.

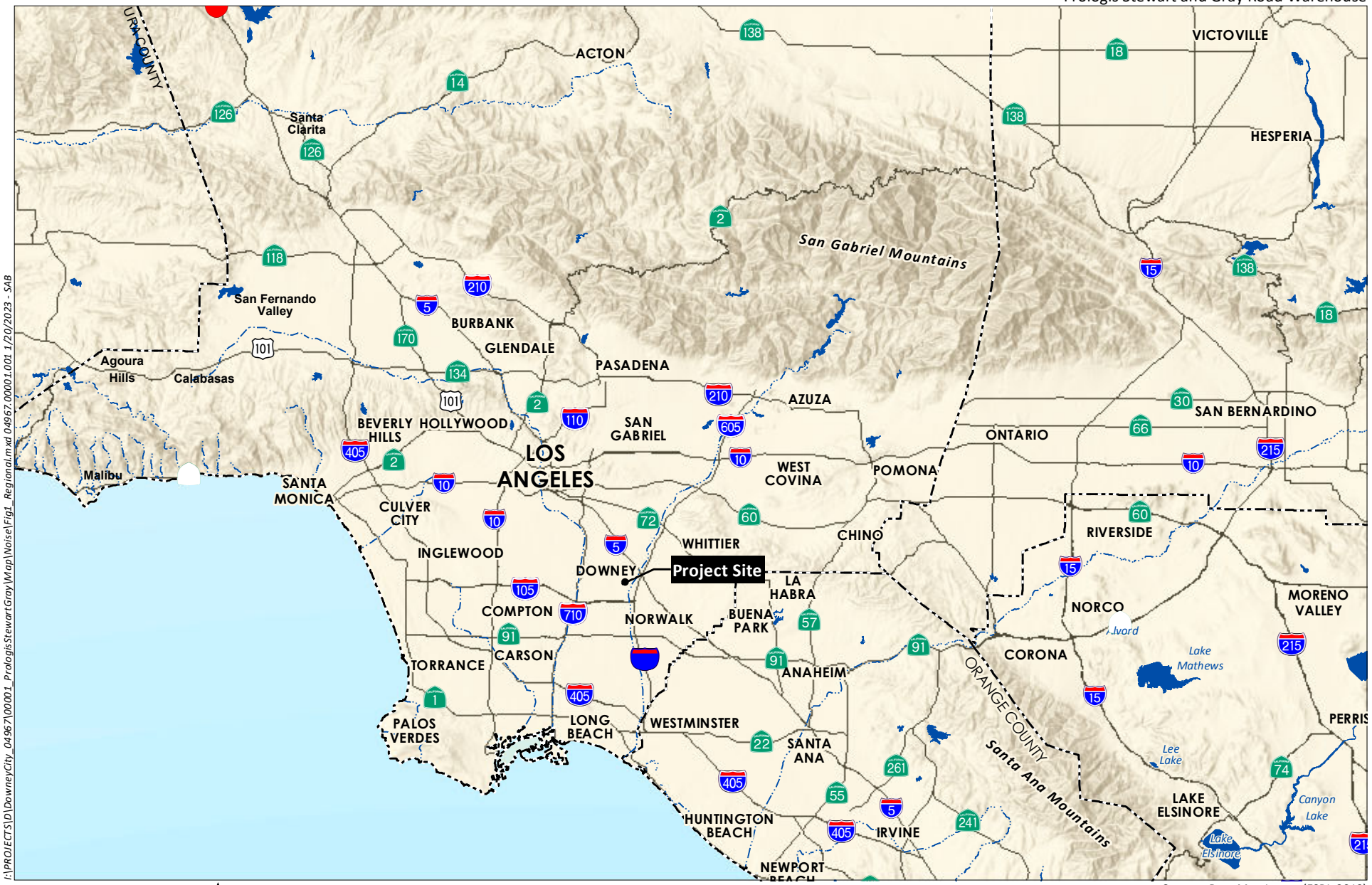
In the science of acoustics, the fundamental model consists of a sound (or noise) source, a receiver, and the propagation path between the two. The loudness of the noise source and obstructions or atmospheric factors affecting the propagation path to the receiver contribute to the sound level and characteristics of the noise perceived by the receiver. The field of acoustics deals primarily with the propagation and control of sound.

Continuous sound can be described by frequency (pitch) and amplitude (loudness). A low frequency sound is perceived as low in pitch. Frequency is expressed in terms of cycles per second, or Hertz (Hz) (e.g., a frequency of 250 cycles per second is referred to as 250 Hz). High frequencies are sometimes more conveniently expressed in kilohertz (kHz), or thousands of Hertz. The audible frequency range for humans is generally between 20 Hz and 20,000 Hz.

The amplitude of pressure waves generated by a sound source determines the loudness of that source. A logarithmic scale is used to describe sound pressure level (SPL) in terms of dBA units. The threshold of hearing for the human ear is about 0 dBA, which corresponds to 20 micro Pascals (mPa).

Because decibels are logarithmic units, SPL cannot be added or subtracted through ordinary arithmetic. Under the decibel scale, a doubling of sound energy corresponds to a 3 dBA increase. In other words, when two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be 3 dBA higher than one source under the same conditions.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear is able to discern 1 dBA changes in sound levels, when exposed to steady, single-frequency (“pure-tone”) signals in the mid-frequency (1,000 Hertz [Hz]–8,000 Hz) range. In typical noisy environments, changes in noise of 1 to 2 dBA are generally not perceptible. It is widely accepted, however, that people begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5 dBA increase is generally



I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\Noise\Fig1_RegionalLmxd 04967.00001.001 1/20/2023 - SAB

0 10 Miles

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1

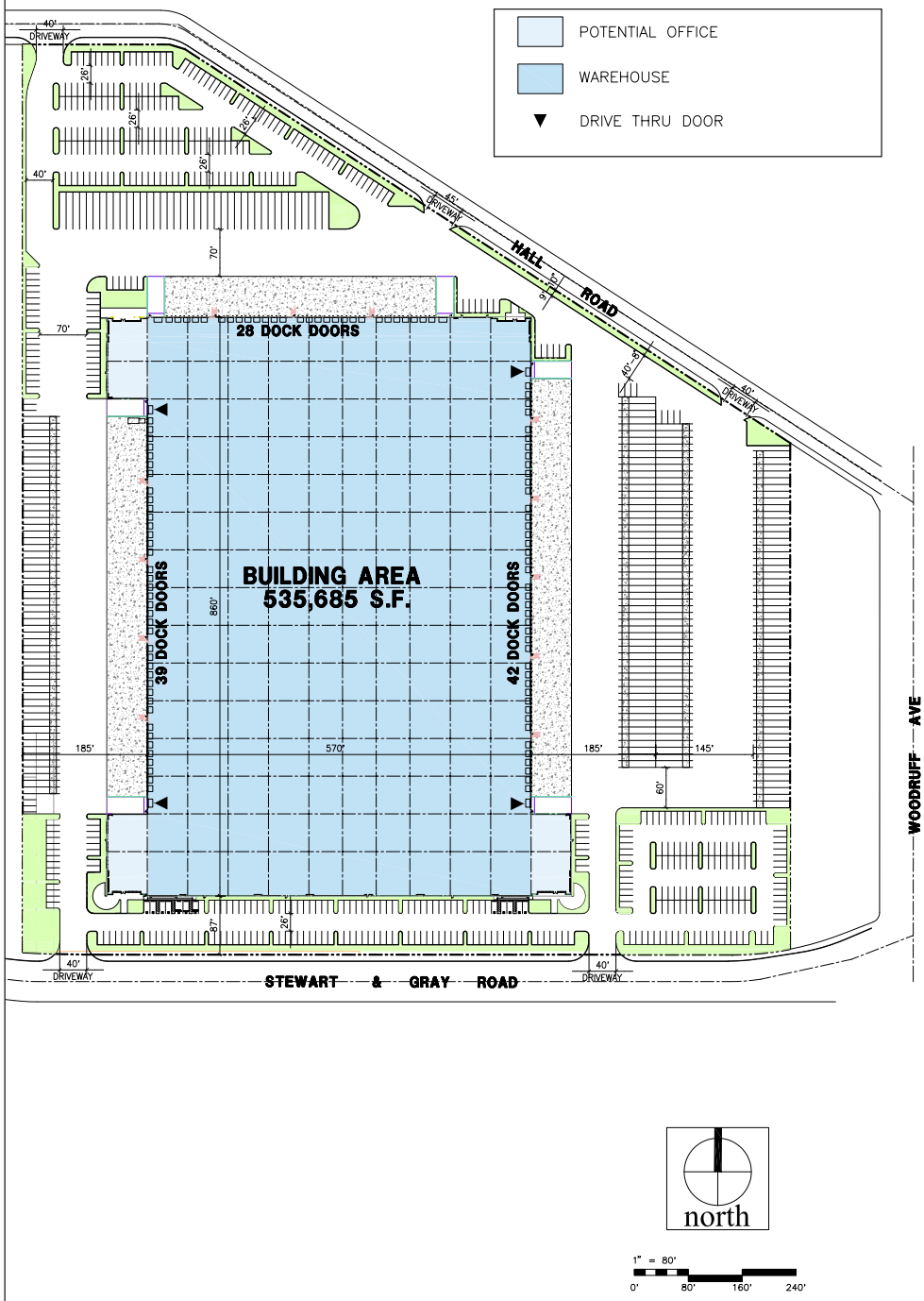
0 300 Feet

Source: Aerial (Maxar, 2021)

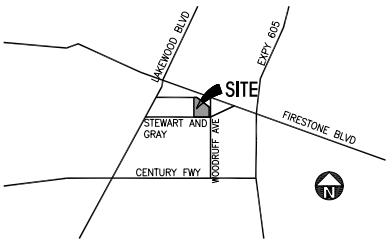
HELIX Environmental Planning

Aerial Photograph

Figure 2



Aerial Map



Tabulation

SITE AREA	
In s.f.	1,270,210 s.f.
In acres	29.16 ac
BUILDING AREA	
Office	20,000 s.f.
Mezzanine	25,000 s.f.
Warehouse	490,685 s.f.
TOTAL	535,685 s.f.
COVERAGE	
	42.2%
AUTO PARKING REQUIRED	
Office: 1/300 s.f.(if exceeds 30% of GFA)	
Whse: 1/800 s.f.	667 stalls
TOTAL	670 stalls
AUTO PARKING PROVIDED	
Standard (9' x 20')	491 stalls
Accessible Van (12'x20')	2 stalls
Standard ADA (9' x 20')	9 stalls
Accessible Van Future EV (12'	1 stall
Standard ADA Future EV (9'x2	1 stall
Ambulatory Future EV (12'x20'	1 stall
Clean Air/Van Pool/EV	10 stalls
Standard Future EV	29 stalls
Total Auto Parking Provided	544 stalls
Auto Parking In Lieu of Trailer	139 stalls
Total Parking in Lieu of Trailer	683 stalls
TRAILER PARKING REQUIRED	
1 Per 4 Dock Doors	46 stalls
TRAILER PARKING PROVIDED	
Trailer (12' x 55')	255 stalls
ZONING ORDINANCE FOR CITY	
Zoning Designation - M-2	
MAXIMUM BUILDING HEIGHT ALLOWED	
Height - 45' or 3 stories	
MAXIMUM COVERAGE	
Coverage - no limit	
SETBACKS	
Front / Street side - 10'	
Side - none (abutting a nonresidential zone)	
Rear - 20' (abutting a nonresidential zone)	
LANDSCAPE REQUIRED	
Required Landscape	10%
LANDSCAPE PROVIDED	
percentage	10.5%
in s.f.	77,432 s.f.

I:\PROJECTS\D\DowneyCity_04967\00001_PrologisStewartGray\Map\Noise\Fig3_SitePlan.indd 04967.00001.001 1/20/2023 - SAB

Source: HPA Architecture 2022

HELIX Environmental Planning

Site Plan

Figure 3

perceived as a distinctly noticeable increase, and a 10 dBA increase is generally perceived as a doubling of loudness.

2.2 GROUNDBORNE VIBRATION DESCRIPTORS AND TERMINOLOGY

Groundborne vibration consists of rapidly fluctuating motions or waves transmitted through the ground with an average motion of zero. Sources of groundborne vibrations include natural phenomena and anthropogenic causes (e.g., explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous (e.g., factory machinery) or transient (e.g., explosions). Several different methods are typically used to quantify vibration amplitude. One is the peak particle velocity (PPV); another is the RMS velocity. The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. For the purposes of this analysis, a PPV descriptor with units of inches per second (in/sec) is used to evaluate construction-generated vibration for building damage and human complaints. Generally, a PPV of less than 0.08 in/sec does not produce perceptible vibration. At 0.12 PPV in/sec is the level at which there is a risk of architectural damage (e.g., cracking of plaster) to historical buildings and other vibration-sensitive structures and the level at which continuous vibration may become noticeable to building occupants. A level of 0.20 PPV in/sec is commonly used as a threshold for risk of architectural damage to non-engineered timber and masonry buildings (California Department of Transportation [Caltrans] 2020).

2.3 NOISE AND VIBRATION SENSITIVE LAND USES

Noise-sensitive land uses (NSLUs) are land uses that may be subject to stress and/or interference from excessive noise, such as residential dwellings, schools, transient lodging (hotels), hospitals, educational facilities, and libraries. Industrial and commercial land uses are generally not considered sensitive to noise. Noise receptors are individual locations that may be affected by noise. The nearest NSLU is a single-family home located approximately 240 feet east of the project site, across Hall Road, Woodruff Avenue, and the Union Pacific Railroad corridor. Additional nearby NSLUs include multi-family residences are located approximately 290 feet southwest of the project site, across Stewart and Gray Road; single-family residences are located approximately 300 feet west of the project site beyond a row of industrial businesses; and multi-family residences are located approximately 320 feet east of the project site, across Woodruff Avenue and the Union Pacific Railroad corridor. See Figure 4, *Receiver Locations*.

Land uses in which ground-borne vibration could potentially interfere with operations or equipment, such as research, hospitals, and university research operations (Caltrans 2020) are considered "vibration-sensitive." The degree of sensitivity depends on the specific equipment that would be affected by the ground-borne vibration. In addition, excessive levels of ground-borne vibration of either a regular or an intermittent nature can result in annoyance to residential uses, schools, or transient lodging. Land uses in the project area that are subject to annoyance from vibration include the residences described above.

2.4 REGULATORY FRAMEWORK

2.4.1 California Noise Control Act

The California Noise Control Act is section within the California Health and Safety Code (HSC §46000) that describes excessive noise as a serious hazard to the public health and welfare and that exposure to

certain levels of noise can result in physiological, psychological, and economic damage. It also finds that there is a continuous and increasing bombardment of noise in the urban, suburban, and rural areas. The California Noise Control Act declares that the State of California has a responsibility to protect the health and welfare of its citizens by the control, prevention, and abatement of noise. It is the policy of the State to provide an environment for all Californians free from noise that jeopardizes their health or welfare.

2.4.2 City of Downey Municipal Code

The following City of Downey Municipal Code sections would be applicable to noise generated by the project (City 2023).

4600.2 Equipment and Machinery

(b) No person shall use, operate, or permit to be used or operated within any commercial (C) or manufacturing (M) Zone, as defined in Chapter 1 of Article IX of this code, which is within three hundred feet of a residential use, any power tool, machine, or equipment, or any other tool, machine, or equipment, between the hours of 10:00 p.m. and 7:00 a.m. in such a manner that the noise there from disturbs or interferes with the peace, comfort, or welfare of the neighboring residential inhabitants.

4606.3 Maximum Permissible Noise Levels by Sound Sources Across Property Boundaries

(a) All activities to which this chapter is applicable shall be conducted in such a manner that any noise produced shall not create a disturbance. The maximum permissible sound pressure level measured at the property boundary of any land use in Subsection (b) of this section from any noise source not operating on a public right-of-way shall constitute prima facie evidence of a public nuisance when such noise level exceeds five dBA above the ambient noise level at any period during the course of a 24-hour day.

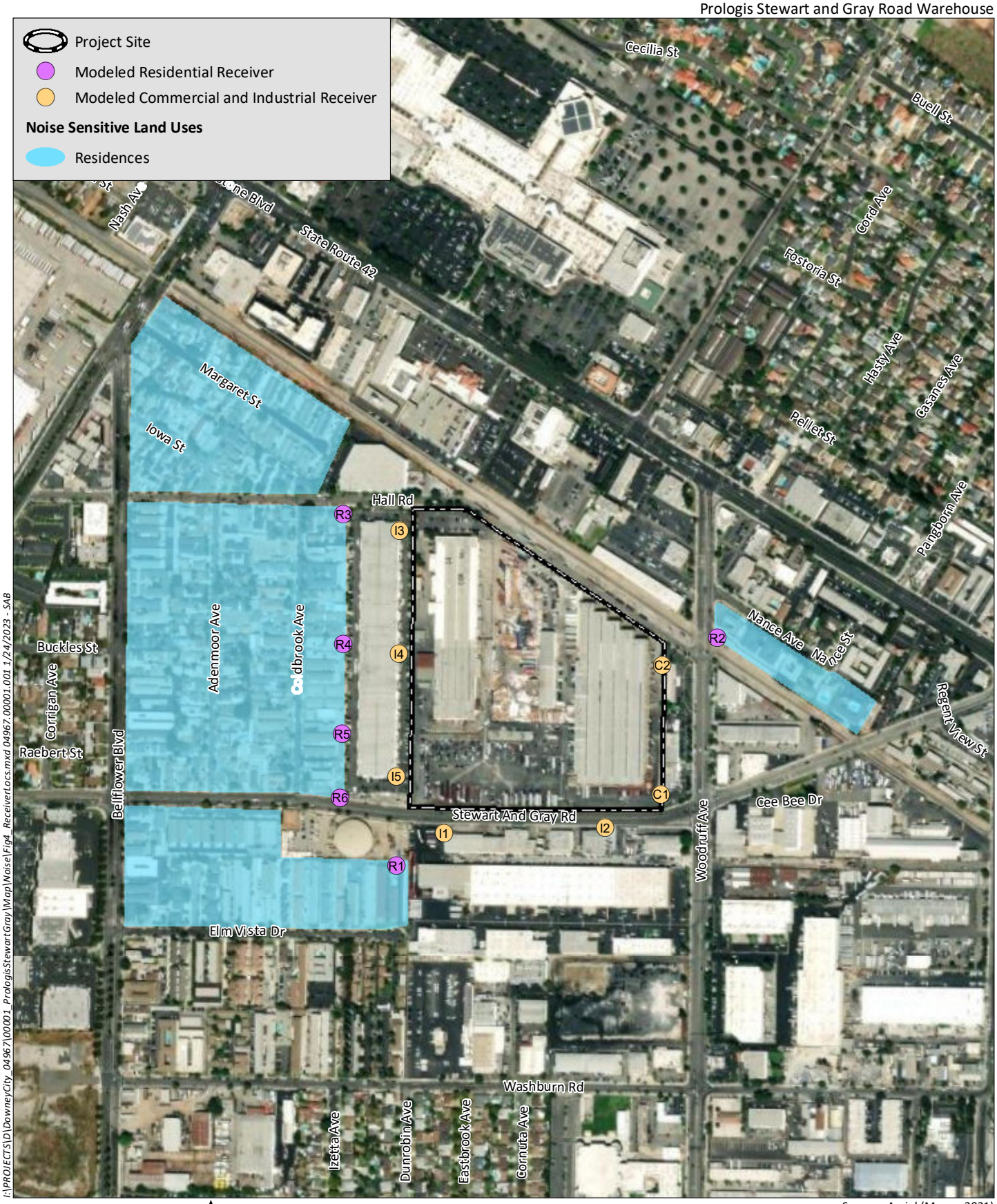
(b) If the alleged noise source is of a continuous nature and cannot reasonably be discontinued for a time period wherein the ambient noise level can be determined, the maximum permissible steady noise level by sound sources across the property boundary of any land use cited below may be less, but not greater than [noise levels in section 4606.3(b) [reproduced as Table 1, *City of Downey Exterior Noise Limits*]:

Table 1
CITY OF DOWNEY EXTERIOR NOISE LIMITS

Receiving Land Use	7:00 a.m. to 10 p.m.	10:00 p.m. to 7:00 a.m.
Residential	55 dBA	45 dBA
Commercial	65 dBA	65 dBA
Manufacturing	70 dBA	70 dBA

Source: City of Downey Municipal Code Section 4606.3(b)
dBA = A-weighted decibel

(c) If any parcel of real property is developed and used for multiple land uses, the lower land use noise level standard shall apply.



Source: Aerial (Maxar, 2021)

HELIX Environmental Planning

Receiver Locations

Figure 4

(d) In the hours between 7:00 a.m. to 10:00 p.m., the noise levels permitted in Subsection (b) of this section may be adjusted by the inclusion of the following factors when applicable:

(1) Noise source operated 12 minutes per hour or less: + 5 dBA
(2) Noise source operated 3 minutes per hour or less: + 10 dBA
(3) Noise source operated 1 minute per hour or less: + 15 dBA

(e) Impulsive sounds, pure tone, or sounds with a cyclically varying amplitude shall be considered a public nuisance when such noises are at a sound pressure level of five dBA less than those listed in Subsection (b) of this section, with the inclusion of the corrective factors listed in Subsection (d) of this section, when applicable.

4606.4 Exemptions

The standards established in this chapter shall not apply to any of the following noise sources:

(a) Any activity to the extent preempted from regulation by State or Federal law;

(f) The unamplified human voice;

(g) Warning systems used to protect the public health, safety, or welfare.

4606.5 Construction Projects

Construction, repair or remodeling equipment and devices and other related construction noise sources shall be exempted from the provisions of this chapter provided a valid permit for such construction, repair, or remodeling shall have been obtained from the City. In any circumstance other than emergency work, no repair or remodeling shall take place between the hours of 9:00 p.m. of one day and 7:00 a.m. of the following day, and no repair or remodeling shall exceed 85 dBA across any property boundary at any time during the course of a 24-hour day.

2.4.3 City of Downey General Plan Noise Element

The Downey Vision 2025 General Plan Noise Chapter establishes noise compatibility guidelines for land uses. Residential land uses would be normally acceptable with ambient noised levels at or below 60 CNEL exterior and 45 CNEL interior; commercial land uses would be normally acceptable with ambient noised levels at or below 70 CNEL exterior and 60 CNEL interior; and industrial land uses would be normally acceptable ambient noised levels at or below 75 CNEL exterior and 60 CNEL interior (City 2005).

2.5 EXISTING CONDITIONS

The project site is currently completely developed with industrial uses, currently in operation. The existing industrial buildings and related improvements are currently used by the following industrial tenants: EJ Lauren (Furniture Manufacturing), 88 Logistics/88 Transportation (Biotechnology/ Pharmaceutical Logistics), Western Pacific Pulp and Paper (Paper Recycler), OmniTeam (Commercial Kitchen Manufacturer) and Duray (Commercial Kitchen Manufacturer). The existing structures were likely developed in the mid-1970s.

2.5.1 Surrounding Land Uses

The Project site is surrounded by the following land uses:

- North: Hall Road and Union Pacific Railroad rail corridor, beyond which are commercial and industrial uses.
- South: Stewart and Gray Road, beyond which are industrial and public utility uses; multi-family residential uses are located further to the southwest.
- East: Adjacent commercial and industrial uses, Woodruff Avenue, additional commercial and industrial uses further east; multi-family residential uses are located further to the northeast beyond the UPRR rail corridor.
- West: Industrial uses, beyond which are multi-family residential uses.

2.5.2 Existing Noise Sources

The existing on-site noise environment dominated by typical noise from industrial businesses on and around the project site and by transportation noise. Transportation noise sources in the area include the Union Pacific Railroad approximately 95 feet north of the project site; major roads including Stewart and Gray Road, Woodruff Avenue, and Firestone Boulevard; and commercial aircraft overflying the city. According to the City's Noise Element Noise Contour Map, the noise levels on the project site range from 70 CNEL (to the north along Hall Road and to the south along Stewart and Gray Road) to 60 CNEL near the center of the project site (City 2005). The distances from the centerline of major roads to the transportation noise contours, as reported in the City's Noise Element, in the project vicinity are shown in Table 2, *2004 Transportation Noise Contours*.

Table 2
2004 TRANSPORTATION NOISE CONTOURS

Road Segment	Distance to 70 CNEL (feet)	Distance to 65 CNEL (feet)	Distance to 60 CNEL (feet)
Stewart and Gray Road – Bellflower Boulevard to Woodruff Avenue	65	205	655
Stewart and Gray Road – Woodruff Avenue to East City Limits	50	165	525
Woodruff Avenue – Firestone Boulevard to Stewart and Gray Road	85	260	825
Woodruff Avenue –Stewart and Gray Road to Imperial Highway	75	230	725
Firestone Boulevard – Lakewood Boulevard to Woodruff Avenue	100	315	995
Firestone Boulevard – Woodruff Avenue to Stewart and Gray Road	100	310	985
Firestone Boulevard –Stewart and Gray Road to East City Limits	125	400	1,270

Source: City 2005
CNEL = Community Noise Equivalent Level

3.0 METHODOLOGY, ASSUMPTIONS, AND THRESHOLDS

3.1 EQUIPMENT AND METHODOLOGY

3.1.1 Noise Modeling Software

Project construction noise was analyzed using the Roadway Construction Noise Model Version 1.1 (RCNM; USDOT 2008), which utilizes estimates of sound levels from standard construction equipment.

Modeling of the exterior noise environment for this report was accomplished the Computer Aided Noise Abatement (CadnaA) model version 2021. Traffic noise was evaluated within CadnaA using the Traffic Noise Model (TNM) version 2.5. CadnaA is a model-based computer program developed by DataKustik for predicting noise impacts in a wide variety of conditions. CadnaA assists in the calculation, presentation, assessment, and mitigation of noise exposure. It allows for the input of project-related information, such as noise source data, barriers, structures, and topography to create a detailed CadnaA model, and uses the most up-to-date calculation standards to predict outdoor noise impacts. CadnaA traffic noise prediction is based on the data and methodology used in the TNM. TNM version 2.5, incorporated into CadnaA, was released in February 2004 by the U.S. Department of Transportation (USDOT) and calculates the daytime average hourly L_{EQ} from three-dimensional model inputs and traffic data (USDOT 2004). Input variables included road alignment, elevation, lane configuration, area topography, existing and planned noise control features, projected traffic volumes, estimated truck composition percentages, and vehicle speeds.

The one-hour L_{EQ} noise level is calculated utilizing peak-hour traffic. Peak hour L_{EQ} can be converted to CNEL using the following equation, where $L_{EQ}(h)pk$ is the peak hour L_{EQ}, P is the peak hour volume percentage of the average daily trips (ADT), d and e are divisions of the daytime fraction of ADT to account for daytime and evening hours, and N is the nighttime fraction of ADT:

$$CNEL = L_{EQ}(h)pk + 10*\log_{10}(4.17/P) + 10*\log_{10}(d + 4.77*e + 10*N)$$

For urban roads in California with typical traffic patterns, the last two terms of the equation are near zero and the model-calculated one-hour L_{EQ} noise output is approximately equal to the CNEL (Caltrans 2013).

3.2 ASSUMPTIONS

3.2.1 Construction

Construction activities would include demolition/site preparation, grading and installation of underground utilities, building construction, architectural coating (e.g., painting), and paving. Based on the project air quality analysis modeling, demolition would include the removal of the existing structures on the site totaling approximately 433,000 SF resulting in approximately 1,969 one-way haul trips (22 per day); grading would result in approximately 75,000 CY of total soil export and approximately 9,375 one-way haul trips (208 trips per day); and paving would require the import of approximately 12,640 CY of aggregate/asphalt (45 trips per day; HELIX 2023). Assuming an 8-hour construction day, up to 26 one-way haul truck trips would occur each hour.

Construction would occur primarily Monday through Friday during daytime hours (not before 7 a.m. or after 9 p.m.) with equipment operating up to 8 hours per workday. However, due to high daytime temperatures, it is likely that pouring of concrete for the building slab, walls, and sidewalks would require nighttime work. Per the project engineering team, nighttime concrete pouring work would occur on approximately 40 nights during project construction. Included in those 40 nights, approximately 12 consecutive nights (including on weekends) would be required to pour the building slab foundation/floor. Typical nighttime concrete pouring work would require the use of multiple concrete mixer trucks, a concrete pump truck, and a backhoe. Nighttime concrete pouring work would typically commence at midnight with pouring completed by mid-morning and concrete finishing work continuing into the afternoon.

3.2.2 Operation

Anticipated operational noise sources are assumed to include delivery trucks with backup alarms; transport refrigeration units (TRUs; typically, a diesel-powered refrigeration unit mounted on the truck trailer or box); rooftop heating, ventilation, and air conditioning (HVAC) systems; rooftop-mounted refrigeration condenser units; and vehicular traffic.

3.2.2.1 Delivery Trucks

Operation of the project would involve diesel-powered heavy trucks for the delivery of goods to the project site and it would be operational for 24 hours a day. According to Table 2-1 of the project's Transportation Impact Study (TIS), 98 one-way truck trips would occur each day, with 12 one-way truck trips during the peak hour entering and exiting the site (Linscott, Law & Greenspan [LLG] 2023).

The proposed project building would have 39 loading docks on the west side, 28 loading docks on the north side, and 42 loading docks on the east side. Delivery trucks access the site via three driveways on Hall Road, and two driveways on Stewart and Gray Road (see Figure 3). Modeling of peak hour noise assumed that the delivery trucks would be divided between the driveways in accordance with the project truck distribution analysis in the TIS: 35 percent on Hall Road and 65 percent on Stewart and Gray Road (LLG 2023). On-site truck circulation was modeled assuming 35 percent of trucks (four peak hour trucks) would enter via the middle driveway on Hall Road and proceed to the north docks, 33 percent of trucks (four peak hour trucks) would enter via the east driveway on Stewart and Gray Road and proceed to the east docks, and 32 percent of trucks (four peak hour trucks) would enter via the west driveway on Stewart and Gray Road and proceed to the west docks. Each truck was assumed to circulate on the project site at an average speed of eight miles per hour (mph), then reverse to a loading bay at 3 mph. Each truck was assumed to idle at the loading bay for the maximum allowable time of five minutes, in accordance with California Code of Regulations Title 13, Section 2485.

The project would provide a parking area for trucks/trailers along the project's western, northern, and eastern sides. It is unknown how many trucks would use the parking areas during each day or peak hour. To be conservative in evaluating the highest potential noise, every truck entering the project site was assumed to travel to a nearby parking area, reverse into a parking spot, and idle for five minutes before departing the project site. Truck circulation noise was modeled using the default heavy truck noise in CadnaA.

Some trucks would generate noise from the use of transport refrigeration units (TRUs; typically, a diesel-powered refrigeration unit mounted on the truck trailer or box). Specific TRU noise would vary from unit to unit. Typical noise from a TRU was modeled as producing 75 dBA at 21 feet, based on field measurements of truck and TRU noise conducted by HELIX. Only trucks transporting goods to and from the project's refrigerated warehouse space (five percent of the total project warehouse space) would be anticipated to be equipped with an operating TRU. Because the location of the refrigerated warehouse space within the project building was unknown at the time of this analysis, one out of the four peak hour trucks going to each loading dock area was assumed to be equipped with an operating TRU. Each TRU was assumed to operate at a 50 percent duty cycle during the analyzed peak noise hour.

There are no California or federal regulations which require on-road trucks to be equipped with backup warning devices. However, backup alarms are commonly used on delivery trucks due to safety/liability concerns. The most common truck backup alarm is a pulsing single tone, typically at one kHz. Recently, in response to noise complaints, backup alarms which produce a less intrusive pulsing broad-spectrum noise have been introduced. To be conservative, all trucks were assumed to be equipped with a traditional one kHz back up alarm, mounted on the back of the truck at a height of three feet. Backup alarms were modeled with typical noise levels of 109.7 dBA measured at a distance of four feet.

3.2.2.2 Stationary Refrigeration Units

The project would include stationary commercial-sized refrigeration units for the refrigerated warehouse space (approximately 26,785 SF). The location of the refrigerated warehouse space within the project building was not known at the time of this analysis. To be conservative, four rooftop refrigeration condensers were assumed, one located near the roof edge on each side of the building and would be surrounded by standard parapet walls approximately four feet high. For this analysis, four Hussman Proto-Air 3280 refrigeration systems were assumed, which have a sound power level (S_{WL}) of 86.3 dBA when operating at the maximum speed of 1,150 revolution per minute. Noise data for the rooftop refrigeration condenser unit and associated fan is shown in Table 3, *Stationary Refrigeration Unit Fan Noise Data*. The manufacturer's data sheets are included in Appendix A to this report.

Table 3
STATIONARY REFRIGERATION UNIT FAN NOISE DATA

Fan Type	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	Overall Noise Level in A-weighted Scale (dBA)[1]
Single Fan 1,150 RPM	90.6	93.6	89.6	86.6	84.6	79.6	75.6	89.3

Source: Hussmann, see Appendix A

[1] Sound Power Levels (S_{WL})

Hz = Hertz; kHz = kilohertz; RPM = revolutions per minute

3.2.2.3 Heating, Ventilation, and Air Conditioning Units

The project would use commercial-sized HVAC units located on the rooftop of the building for the proposed office space. Specific planning data for the future HVAC systems was not available at the time of this analysis. Standard HVAC planning assumes approximately one ton of HVAC for every 350 to 500 SF of occupied office space (American Society of Heating, Refrigeration, and Air Conditioning Engineers [ASHRAE] 2012). For the purposes of this analysis, one Carrier 50PG 12-ton HVAC unit, which

has a sound power level (S_{WL}) of 80.0 dBA, was assumed for each of the project three office spaces (see Figure 3). The HVAC systems were assumed to be mounted on the project building roof and would be surrounded by standard parapet walls approximately four feet high. The manufacturer's noise data for the HVAC units is provided below in Table 4, *Condenser Noise Data*; more detailed data can be found in Appendix C, *Carrier 50PG Condenser Data*. The manufacturer's data sheets are included in Appendix A to this report.

Table 4
CONDENSER NOISE DATA

63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Overall Noise Level in A-weighted Scale (dBA)[1]
90.4	83.1	80.9	77.8	75.2	70.0	66.1	57.6	80.0

Source: Carrier, see Appendix A
[1] Sound Power Levels (S_{WL})
Note: Noise levels in decibels (dB) measured at octave frequencies
Hz = Hertz; kHz = kilohertz

3.2.2.4 Vehicular Traffic

Modeled existing traffic data for the roadways in the project vicinity were based on volumes provided by the project's TIS (LLG 2023) for four scenarios: existing, existing plus project, cumulative 2024, and cumulative 2024 plus project. The mix of cars and trucks on the analyzed roadways was not provided in the TIS. Therefore, all analyzed road segments were assumed to carry a mix typical of urban areas with significant industrial activity: 92 percent cars and light trucks, 4 percent medium trucks; and 4 percent heavy duty trucks. Trip generation rates and trip distribution were also provided in the TIS. Speed limits and road widths analyzed road segments were used in the modeling to calculate existing and future noise levels. Table 5, *PM Peak Hour Traffic Volumes*, shows the p.m. peak hour traffic volumes used in the modeling for the analyzed roadway segments.

Table 5
PM PEAK HOUR TRAFFIC VOLUMES

Roadway Segment	Existing ADT	Existing + Project ADT	2024 ADT	2024 + Project ADT
Firestone Boulevard				
Woodruff Avenue to Stewart & Gray Road	2858	2871	2975	2988
Stewart & Gray Road to I-605	3739	3803	3925	3989
Woodruff Avenue				
Firestone Boulevard to Hall Road	1342	1388	1399	1445
Hall Road to Stewart & Gray Road	1126	1211	1180	1265
Stewart & Gray Road to Washburn Road	1057	1094	1146	1183
Washburn Road to Imperial Highway	1239	1257	1311	1329
Hall Road				
Project to Woodruff Avenue	163	260	166	263
Stewart & Gray Road				
Project to Woodruff Avenue	1337	1374	1363	1400
Woodruff Avenue to Firestone Boulevard	1035	1087	1109	1160

Roadway Segment	Existing ADT	Existing + Project ADT	2024 ADT	2024 + Project ADT
Washburn Road				
Bellflower Road to Woodruff Avenue	220	237	224	241
Imperial Highway				
Bellflower Road to Woodruff Avenue	2532	2545	2596	2609
Woodruff Avenue to I-605	2895	2908	2956	2978

Source: LLG 2023
ADT = average daily trips

3.3 GUIDELINES FOR THE DETERMINATION OF SIGNIFICANCE

Based on Appendix G of the CEQA Guidelines, implementation of the project would result in a significant adverse impact if it would:

Threshold 1: *Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the City General Plan or noise ordinance.*

Per the City Municipal Code Section 4606.3, noise generated on the project site would be significant if noise exceeds ambient noise levels by 5 dBA or more, measured at the receiving land use property line. If ambient noise levels cannot be measured, noise generated on the project site would be significant if steady noise exceeds 55 dBA L_{EQ} between the hours of 7:00 a.m. and 10:00 p.m. or 45 dBA L_{EQ} between the hours of 10:00 p.m. and 7:00 a.m. for residential uses; 65 dBA L_{EQ} for commercial uses; or 70 dBA L_{EQ} for industrial uses.

The City has not established standards for determining the significance of increases in transportation noise resulting from a development project. Therefore, the standards of significance are based on perceived increases in ambient noise levels. Impacts would be significant in areas where existing traffic noise at NSLUs exceeds 60 CNEL (the City General Plan noise compatibility level for residential uses) and implementation of the project would result in an increase of the noise level by 3 CNEL or more (a just perceivable increase in typical noisy environments), or where existing traffic noise is less than 60 CNEL and implementation of the project results in an increase of 5 CNEL or more.

Per the City Municipal Code Section 4606.5, construction noise is exempt from the provisions of City Noise Ordinances provided a valid permit for such construction has been obtained from the City. CEQA case law establishes that a project's noise impact analysis must consider the increase in ambient noise levels (King and Gardiner Farms v. County of Kern). Neither the City nor any state regulatory agency have established criteria for determining the significance of an increase in ambient noise levels resulting from temporary and short-term construction noise. Therefore, temporary project construction noise measured at off-site NSLUs would be significant if it would result in a perceived doubling of loudness, estimated to be an increase of 10 dBA above exterior ambient noise levels (Caltrans 2013). This threshold provides a reasonable balance between the need to operate noise generating equipment for most temporary construction activities and the desire to protect NSLUs from temporary disturbances.

Threshold 2: *Generate excessive ground-borne vibration or ground-borne noise levels.*

Ground-borne vibration would be potentially significant if the project would result in ground-borne vibration which exceeds the "strongly perceptible" vibration annoyance potential criteria for human receptors of 0.1 inch per second peak particle velocity (PPV) for nearby residences, or exceed the threshold for architectural damage potential criteria for buildings in good repair with gypsum bard walls of 0.4 inch per second PPV, for continuous/frequent intermittent construction sources (such as impact pile drivers, vibratory pile drivers, and vibratory compaction equipment; Caltrans 2020).

Threshold 3: *For a project located within the vicinity of a private airstrip or an airport land use plan, or where such a plan has not been adopted, within two miles of a public use airport or private airstrip, expose people residing or working in the project area to excessive noise.*

Excessive noise exposure is defined as noise levels that exceed the standards in the City General Plan Noise Element for the associated land use.

4.0 IMPACTS

4.1 ISSUE 1: EXCESSIVE NOISE LEVELS

Would the project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the City General Plan or noise ordinance?

4.1.1 Temporary Construction Noise

Construction of the project would require site clearing, grading, installation of underground utilities/infrastructure, construction of new buildings, paving, and architectural coating. The magnitude of the noise impact would depend on the type of construction activity, equipment, duration of each construction phase, distance between the noise source and receiver, and any intervening structures. Construction would generate elevated noise levels that may disrupt NSLUs in the area. As described in Section 2.5.2, above, the closest NSLU to the project site is a single-family home located approximately 240 feet east of the project site, across Hall Road, Woodruff Avenue, and the Union Pacific Railroad corridor. In addition, multi-family residences are located approximately 290 feet southwest of the project site, across Stewart and Gray Road. The single-family residences located approximately 300 feet west of the project site and multi-family residences located approximately 320 feet east of the project site are substantially shielded from noise on the project site by large existing industrial/commercial buildings.

Construction equipment would not all operate at the same time or location and would not be in constant use during the 8-hour operating day. Further, not all the pieces of equipment would be used within 240 feet of the closest off-site residences. It is anticipated that, over the course of an hour, demolition and earthmoving equipment would operate an average distance of 100 or more feet from the project property lines, or 340 or more feet from the closest NSLU. Table 6, *Construction Equipment Noise Levels*, provides the 340-foot distance noise levels for equipment anticipated to be used for general construction activities.

Table 6
CONSTRUCTION EQUIPMENT NOISE LEVELS

Unit	Percent Operating Time	L_{MAX} at 340 feet	dBA L_{EQ} at 340 feet
Backhoe	40	60.9	56.9
Compressor	40	61.0	57.0
Concrete/Industrial Saws	20	72.9	65.9
Concrete Mixer Truck	40	60.9	58.2
Concrete Pump Truck	20	62.1	57.8
Crane	16	63.9	55.9
Dozer	40	65.0	61.0
Excavator	40	64.1	60.1
Generator	50	64.0	61.0
Grader	40	68.3	64.4
Paver	50	60.6	57.6
Scraper	40	66.9	63.0
Roller	20	63.3	56.4

Source: RCNM
L_{MAX} = maximum noise level; dBA = A-weighted decibel; L_{EQ} = time-averaged noise level

The noisiest anticipated construction activity would be during site preparation/demolition, a dozer, an excavator, and a concrete saw may be working concurrently and would produce a combined noise level of 67.9 dBA L_{EQ} at 340 feet, as modeled using the RCNM. The RCNM output is included in Appendix B to this report. The closest NSLU, a single-family residence is approximately 100 feet from the Union Pacific railroad tracks and approximately 50 feet from the centerline of Woodruff Avenue. According to the City General Plan Noise Element, this residence is located in an area with an ambient noise level of 70 CNEL or more and project construction would not exceed ambient noise levels. The next closest NSLU, multi-family residences are south of Stewart and Gray Road and adjacent to existing industrial land uses. According to the City General Plan Noise Element, these residences are located in an area with an ambient noise level of 65 CNEL resulting from traffic on Stewart and Gray Road. Therefore, the maximum calculated project site preparation/demolition noise level of 67.9 dBA L_{EQ} would be approximately 3 dBA above daytime ambient noise levels at the multi-family residences to the south, and the increase over ambient noise would be less than the 10 dBA increase significance level. However, nighttime ambient noise levels are typically lower than daytime levels—the CNEL reported in the General Plan Noise Element includes a 10 dBA weighting during nighttime hours. Therefore, project site preparation/demolition noise would be potentially significant if it would occur at night or during other periods with reduced transportation noise, such as Sundays and holidays.

As described in Section 3.2.1, due to high daytime temperatures, pouring of concrete for project construction may be required to be conducted at night. The combined noise from two concrete mixer trucks, a concrete pump truck, and a backhoe (all working in close proximity to each other) would result in a combined noise level of 64.9 dBA L_{EQ} at 300 feet, as modeled using the RCNM. Unlike demolition and earthmoving activities, concrete pouring equipment could be stationary for more than an hour and positioned near the project property lines. Therefore, NSLUs within 300 feet of the project site could be exposed to temporary construction noise more than 10 dBA above nighttime ambient noise levels, and project nighttime concrete pouring noise would be potentially significant.

4.1.2 Construction Traffic Noise

As stated in Section 3.2.1, project grading would result in approximately 208 daily one-way haul truck trips, or approximately 26 hourly haul truck trips over the course of an 8-hour workday. The closest NSLU to the project site is a single-family residence east of the project site on Woodruff Avenue just north of the railroad tracks (between Firestone Boulevard and Hall Road). As shown in Table 6, this segment of Woodruff Avenue carries 1,342 vehicle trips during the peak hour, of which approximately 54 (4 percent) are heavy trucks. Using the CadnaA and the TNM model, an additional 26 heavy truck trips per hour would temporarily increase the hourly noise level along that roadway from 68.3 dBA to 68.6 dBA. This increase in noise levels of 0.3 dBA would be well below the just perceivable 3 dBA increase level for noisy outdoor environments. Therefore, construction traffic noise impacts would be less than significant.

4.1.3 Warehouse Operational Noise Generation

The proposed on-site truck circulation routes, loading dock areas, rooftop HVAC units, and rooftop refrigeration condensers would generate elevated noise levels compared to existing conditions. The primary noise sources for the loading dock areas are delivery truck engines idling, truck backup alarms, and TRU engines, as described in Section 3.2.2.

Operation of all noise-generating components was modeled using CadnaA. The project building and four surrounding existing buildings were included in the model. As described in Section 2.5.2, the closest existing NSLU to the project site is a single-family home located approximately 240 feet east of the project site, across Hall Road, Woodruff Avenue, and the Union Pacific Railroad corridor. In addition, multi-family residences are located approximately 250 feet southwest of the project site, across Stewart and Gray Road; single-family residences are located approximately 300 feet west of the project site beyond a row of industrial businesses; and multi-family residences are located approximately 320 feet east of the project site, across Woodruff Avenue and the Union Pacific Railroad corridor. Six receivers were placed in the model at the property line of the closest residential properties east, west, and southwest of the project site (R1 through R6). Five receivers were placed in the model at the industrial buildings west and south of the project site (I1 through I5). Two receivers were placed in the model at the commercial buildings east of the project site (C1 through C2). See Figure 4.

As shown in Section 2.4.2, the City's standard for noise produced on the project site and measured at the receiving property line is a maximum of 5 dBA over the ambient noise level for any period during the course of a 24-hour day (City Municipal Code Section 4606.3(a)). Where the subject noise cannot be discontinued in order to measure ambient noise levels, the maximum permissible steady noise level by sound sources across the property boundary shall not exceed the limits shown in Table 1, above (City Municipal Code Section 4606.3(b)). Because existing condition on the project site include active industrial businesses, ambient noise measurements without noise produced on the project site cannot be made. Three of the modeled residential receivers are close to high volume roadways and the ambient noise levels can be estimated from the noise contours reported in the City General Plan Noise Element (see Table 2, above): receiver R1 is approximately 200 feet from Stewart and Gray Road and within the 65 CNEL contour; receiver R2 is approximately 65 feet from Woodruff Avenue and within the 70 CNEL contour; and receiver R6 is approximately 45 feet from Stewart and Gray Road and within the 70 CNEL contour (City 2005). Because the CNEL calculations include a 10 dBA nighttime weighting, nighttime ambient noise levels for receivers R1, R2, and R6 were assumed to be 10 dBA below the reported CNEL level.

The calculated daytime peak hour noise level results are compared to the City's noise standard for the maximum permissible level measured at the receiving property boundary in Table 7, *Daytime Operational Noise*. The CadnaA modeling output tables are included in Appendix C to this report.

Table 7
DAYTIME OPERATIONAL NOISE

Receiver Number	Land Use	Ambient Noise (CNEL)	Project Noise (dBA L_{EQ})	City Noise Limit (dBA)	*Exceed Standard?*
R1	Residential	65[1]	59.6	70[2]	*No*
R2	Residential	70[1]	59.2	75[2]	*No*
R3	Residential	Unknown	39.7	55[3]	*No*
R4	Residential	Unknown	33.5	55[3]	*No*
R5	Residential	Unknown	34.1	55[3]	*No*
R6	Residential	70[1]	54.6	70[2]	*No*
I1	Industrial	Unknown	59.8	70[3]	*No*
I2	Industrial	Unknown	63.8	70[3]	*No*
I3	Industrial	Unknown	62.1	70[3]	*No*
I4	Industrial	Unknown	67.7	70[3]	*No*
I5	Industrial	Unknown	66.8	70[3]	*No*
C1	Commercial	Unknown	62.4	65[3]	*No*
C2	Commercial	Unknown	64.8	65[3]	*No*

Source: CadnaA

[1] Existing ambient noise based on 2004 traffic noise contours from City General Plan Noise Element, see Table 2 of this report.

[2] Noise standard is 5 dBA above existing ambient level Per City Municipal Code Section 4606.3(a).

[3] Noise standard is per City Municipal Code Section 4606.3(b) based on receiving land use and time of day, see Table 1 of this report.

dBA = A-weighted decibel; CNEL = Community Noise Equivalent Level; L_{EQ} = time-averaged noise level

The project would operate 24 hours per day resulting in nighttime noise generated on the project site. HVAC systems and refrigeration condensers were assumed to operate for one hour or more continuously at night. For truck circulation and loading dock operations, it is unknown how many trucks per hour would arrive and depart the project site at night. As discussed in Section 3.2.2, the TIS estimated the project would result in 98 one-way daily truck trips (LLG 2023). If truck trips were spread throughout the day evenly, the result would be approximately 4 trucks per hour. However, the traffic report estimated that 12 of the truck trips (approximately 12 percent of the daily trips) would occur during the peak afternoon hour (LLG 2023) indicating truck trips would not be distributed uniformly throughout the day. To be conservative in analyzing the highest reasonably foreseeable nighttime noise level, 6 nighttime peak hour trucks (50 percent of daytime peak truck trips) entering and exiting the project site were assumed. The calculated peak nighttime hour noise level results are compared to the City's noise standard for the maximum permissible level measured at the receiving property boundary in Table 8, *Nighttime Operational Noise*. The CadnaA modeling output tables are included in Appendix C to this report.

Table 8
NIGHTTIME OPERATIONAL NOISE

Receiver Number	Land Use	Ambient Noise (dBA L_{EQ})	Project Noise (dBA L_{EQ})	City Noise Limit (dBA)	*Exceed Standard?*
R1	Residential	55[1]	56.6	60[2]	*No*
R2	Residential	60[1]	56.2	65[2]	*No*
R3	Residential	Unknown	36.7	45[3]	*No*
R4	Residential	Unknown	30.6	45[3]	*No*
R5	Residential	Unknown	31.2	45[3]	*No*
R6	Residential	60[1]	51.5	65[2]	*No*
I1	Industrial	Unknown	56.8	70[3]	*No*
I2	Industrial	Unknown	60.8	70[3]	*No*
I3	Industrial	Unknown	59.1	70[3]	*No*
I4	Industrial	Unknown	64.7	70[3]	*No*
I5	Industrial	Unknown	63.8	70[3]	*No*
C1	Commercial	Unknown	59.4	65[3]	*No*
C2	Commercial	Unknown	61.8	65[3]	*No*

Source: CadnaA

[1] Existing nighttime ambient noise based on 2004 traffic noise contours from City General Plan Noise Element and removing the CNEL 10 dBA nighttime weighting, see Table 2 of this report.

[2] Noise standard is 5 dBA above existing ambient level Per City Municipal Code Section 4606.3(a).

[3] Noise standard is per City Municipal Code Section 4606.3(b) based on receiving land use and time of day, see Table 1 of this report.

dBA = A-weighted decibel; CNEL = Community Noise Equivalent Level; L_{EQ} = time-averaged noise level

As shown in Table 7 and Table 8, noise levels from the project on-site operational sources would not exceed the limits for land uses in the vicinity of the project at any of the modeled receivers. Impacts would be less than significant.

4.1.4 Operational Off-Site Transportation Noise Generation

The project would generate vehicular traffic along nearby roadways. CadnaA/TNM software was used to calculate the peak p.m. hour noise for the Existing, Existing + Project, Cumulative (year 2024) and Cumulative (year 2024) + Project conditions along project-affected roadways. As noted in the Section 3.2.2, traffic noise levels presented in this analysis are based on traffic volumes provided in the project's TIS (LLG 2023). The off-site roadway modeling represents a conservative analysis that does not consider topography or attenuation provided by existing structures. The results of the analysis for the Existing and Existing + Project conditions are shown in Table 9, *Existing Off-Site Traffic Noise Levels.* The results of the analysis for the Cumulative and Cumulative + Project conditions are shown in Table 10, *Cumulative (Year 2024) Off-Site Traffic Noise Levels.* The CadnaA modeling output tables are included in Appendix C to this report.

Table 9
EXISTING OFF-SITE TRAFFIC NOISE LEVELS

Roadway Segment	Distance to Nearest NSLU (feet)	Existing P.M. Peak Hour (dBA L_{EQ})	Existing + Project P.M. Peak Hour (dBA L_{EQ})	Increase (dBA L_{EQ})
Firestone Boulevard				
Woodruff Avenue to Stewart & Gray Road	64	71.3	71.3	0.0
Stewart & Gray Road to I-605[1]	105	70.8	70.9	0.1
Woodruff Avenue				
Firestone Boulevard to Hall Road	74	68.4	68.5	0.1
Hall Road to Stewart & Gray Road[1]	70	69.3	69.6	0.3
Stewart & Gray Road to Washburn Road	77	68.1	68.2	0.1
Washburn Road to Imperial Highway	70	69.3	69.3	0.0
Hall Road				
Project to Woodruff Avenue[1]	40	59.3	60.8	1.5
Stewart & Gray Road				
Project to Woodruff Avenue[1]	55	70.5	70.6	0.1
Woodruff Avenue to Firestone Boulevard	80	67.8	67.9	0.1
Washburn Road				
Bellflower Road to Woodruff Avenue	35	62.5	62.7	0.2
Imperial Highway				
Bellflower Road to Woodruff Avenue	63	74.0	74.0	0.0
Woodruff Avenue to I-605	101	69.9	69.9	0.0

Source: TNM

[1] No NSLU along this roadway segment, distance and noise level shown for nearest commercial or industrial building.

NSLU = noise sensitive land use; dBA = A-weighted decibels; L_{EQ} = 1-hour time-averaged noise level

Table 10
CUMULATIVE (YEAR 2024) OFF-SITE TRAFFIC NOISE LEVELS

Roadway Segment	Distance to Nearest NSLU (feet)	2024 P.M. Peak Hour (dBA L_{EQ})	2024 + Project P.M. Peak Hour (dBA L_{EQ})	Increase (dBA L_{EQ})
Firestone Boulevard				
Woodruff Avenue to Stewart & Gray Road	64	71.4	71.5	0.1
Stewart & Gray Road to I-605[1]	105	71.0	71.1	0.1
Woodruff Avenue				
Firestone Boulevard to Hall Road	74	68.6	68.7	0.1
Hall Road to Stewart & Gray Road[1]	70	69.5	69.7	0.2
Stewart & Gray Road to Washburn Road	77	68.4	68.5	0.1
Washburn Road to Imperial Highway	70	69.5	69.5	0.0
Hall Road				
Project to Woodruff Avenue[1]	40	59.2	60.6	1.4
Stewart & Gray Road				
Project to Woodruff Avenue[1]	55	70.5	70.7	0.2
Woodruff Avenue to Firestone Boulevard	80	68.0	68.2	0.2
Washburn Road				
Bellflower Road to Woodruff Avenue	35	62.6	62.8	0.2

Roadway Segment	Distance to Nearest NSLU (feet)	2024 P.M. Peak Hour (dBA L_{EQ})	2024 + Project P.M. Peak Hour (dBA L_{EQ})	Increase (dBA L_{EQ})
Imperial Highway				
Bellflower Road to Woodruff Avenue	63	74.1	74.1	0.0
Woodruff Avenue to I-605	101	70.0	70.0	0.0

Source: TNM

[1] No NSLU along this roadway segment, distance and noise level shown for nearest commercial or industrial building.

NSLU = noise sensitive land use; dBA = A-weighted decibels; L_{EQ} = 1-hour time-averaged noise level

Impacts would be significant in areas where existing traffic noise at NSLUs exceeds 60 CNEL and implementation of the project would result in an increase of the noise level by 3 CNEL or more (a just perceivable increase in typical noisy environments), or where existing traffic noise is less than 60 CNEL and implementation of the project results in an increase of 5 CNEL or more. As shown in Table 7 and Table 8, the existing traffic noise exceeds 60 CNEL for all road segments except on Hall Road. The maximum traffic noise increase as a result of the addition of project traffic on any analyzed road segment would be 1.5 dBA on Hall Road for both the Existing and Cumulative conditions. The segment of Hall Road analyzed (from Woodruff Avenue to the Project's western driveway) does not have any NSLUs (Hall Road west of the project site would not carry any project truck traffic and was not analyzed). The maximum traffic noise increase along a roadway segment with NSLUs would be 0.2 dBA (segments on Woodruff Avenue, Stewart and Gray Road, and Washburn Road) for the Existing conditions. Therefore, the increase in traffic noise resulting from the addition of project-related traffic would be less than 3 dBA and would not result in a perceptible increase in ambient noise levels. Noise impacts from project-generated traffic would be less than significant.

4.1.5 Significance of Impacts

Project construction equipment noise would be potentially significant if it would occur at night or during other periods with reduced transportation noise, such as Sundays and holidays. Project construction traffic noise, on-site operational warehouse noise, and off-site operational traffic noise would all be less than significant.

4.1.6 Mitigation Framework

Mitigation measure NOI-01 would prohibit project construction noise generating activities during nighttime hours (as defined in the City's Noise Municipal Code Section 4606.5) and provides procedures to follow if nighttime concrete pouring is required.

Mitigation Measure NOI-01: Construction Activity Limits

> The project applicant or designated contractor shall obtain permits for project construction activities from the City. The City shall ensure all permits contain restrictions to construction hours, and nighttime work requirements described below.
>
> All construction activity with the exception of concrete pouring as specified below shall be prohibited between the hours of 9:00 p.m. and 7:00 a.m. Monday through Saturday, and at any time on Sundays or on any City recognized public holiday. Delivery of materials or equipment to the site and construction truck traffic coming to and from the site shall be prohibited during the same hours specified above.

If, due to weather condition (e.g., high temperatures), pouring of concrete at night or on Sundays or on any City recognized public holiday is required, the project applicant or designated contractor shall provide written notification of nighttime/weekend concrete work to all residences located within 300 feet of the project site. The notification shall:

- Be delivered a minimum of 48 hours prior to commencement of nighttime work;
- Include the days and hours of upcoming concrete pouring nighttime work; and
- Include noise complaint contact information, including phone numbers and email addresses to register noise complaints with both the construction contractor and the City.

The City and the construction contractor shall log all received noise complaints. The construction contractor shall submit to the City a daily log of all noise complaints received, including the date and time of the complaint and address of the complainant (if provided). The City shall work with the construction contractor to respond to noise complaints and limit nighttime work and locations of noise generating equipment to the extent feasible.

4.1.7 Significance After Mitigation

With implementation of mitigation measure NOI-01, affected residents would be informed of potential nighttime and weekend disturbances and the duration of those disturbances. However, mitigation measure NOI-01 would not reduce project temporary construction-related noise levels to acceptable limits.

Further, because some of the affected residents within 300 feet of the project site are within the upper levels of a two-story building, other noise-reducing mitigation such as temporary sound walls would have to be unreasonably high (more than 20 feet) to provide adequate noise reduction and would not be feasible.

Therefore, the project would generate a substantial temporary increase in ambient noise levels in the vicinity of the project, and the impact would be significant and unavoidable.

4.2 ISSUE 2: EXCESSIVE VIBRATION

Generate excessive ground-borne vibration or ground-borne noise levels?

4.2.1 Construction Vibration

Construction activities known to generate excessive ground-borne vibration, such as pile driving, would not be conducted by the project. A possible source of vibration during general project construction activities would be a vibratory roller used for gravel or pavement compaction. A vibratory roller could be used up to 25 feet from the closest off-site structure (two commercial buildings to the east). A large vibratory roller can create approximately 0.210 inch per second PPV at 25 feet (Caltrans 2020), which would not exceed the 0.4 inch per second PPV threshold for damage to buildings in good repair with gypsum wall boards, for continuous/frequent intermittent construction sources. The closest residential building would be a single-family residence appropriately 240 feet east of the project site. A 0.210 inch

per second PPV vibration level would equal 0.017 inch per second PPV at a distance of 240 feet.[1] This would be lower than what is considered a "strongly perceptible" level for humans of 0.1 inches per second PPV. Therefore, although a vibratory roller may be perceptible to nearby human receptors within the commercial building east of the project site, temporary impacts associated with the roller (or other construction equipment) would be less than significant.

4.2.2 Operational Vibration

Land uses that may generate substantial operational vibration include heavy industrial or mining operations that would require the use of vibratory equipment. The proposed warehouse land use does not include equipment that would generate substantial vibration. Therefore, operational vibration impacts are less than significant.

4.2.3 Significance of Impacts

Construction or long-term operation of the project would not excessive ground-borne vibration or ground borne noise levels, and the impact would be less than significant.

4.2.4 Mitigation Framework

Construction or long-term operation of the project would not exceed ground-borne vibration or ground borne noise levels, the impact would be less than significant, and no mitigation measures would be required.

4.2.5 Significance After Mitigation

Construction or long-term operation of the project would not generate excessive ground-borne vibration or ground borne noise levels, and the impact would be less than significant.

4.3 ISSUE 3: AIRPORT NOISE EXPOSURE

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

The closest airports to the project site are Compton Woodley Airport (7.5 miles southwest); Long Beach Airport (7.7 miles south); Fullerton Municipal Airport (8.7 miles southeast); Hawthorne Municipal Airport (11.8 miles west); and Los Angeles International Airport (LAX; 15 miles west). The project site is located approximately 2 miles south of one of the main approach paths to Los Angeles International Airport. However, the project site is not located within the airport influence area, nor within the 65 CNEL noise contour of any of the Los Angeles County airports, including LAX (Los Angeles County Airport Land Use Commission 2022). Therefore, although aircraft may be commonly audible in the airspace around the project site, persons residing or working in the project area would not be exposed to excessive noise levels from aircraft or airports.

[1] Equipment PPV = Reference PPV * $(25/D)^n$ (in/sec), where Reference PPV is PPV at 25 feet, D is distance from equipment to the receiver in feet, and n = 1.1 (the value related to the attenuation rate through the ground); formula from Caltrans 2020.

4.3.1 Significance of Impacts

The project would not expose people residing or working in the project area to excessive noise levels from aircraft or airports, and the impact would be less than significant.

4.3.2 Mitigation Framework

The project would not expose people residing or working in the project area to excessive noise levels from aircraft or airports, the impact would be less than significant, and no mitigation measures would be required.

4.3.3 Significance After Mitigation

The project would not expose people residing or working in the project area to excessive noise levels from aircraft or airports, and the impact would be less than significant.

5.0 LIST OF PREPARERS

Martin Rolph	Acoustic Analyst
Joanne M. Dramko, AICP	Principal Noise Specialist, QA/QC
Tim Belzman	Project Manager

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

6.0 REFERENCES

American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE). 2012. ASHRAE Handbook.

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. April. Available at: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf.

2013. Technical Noise Supplement (TeNS) to the Traffic Noise Protocol. September. Available at: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf.

Downey, City of. Downey, California Municipal Code Chapter 6 – Unnecessary Noises. Available at: https://library.qcode.us/lib/downey_ca/pub/municipal_code/item/article_iv-chapter_6?view=all#article_iv-chapter_6-section_4600. Accessed January 2023.

2005. Visions 2025 General Plan, Chapter 6 - Noise. Adopted January 25. Available at: https://www.downeyca.org/our-city/departments/community-development/planning/general-plan-map.

HELIX Environmental Planning, Inc. (HELIX). 2023. Air Quality and Greenhouse Gas Emissions Technical Report for the Prologis Stewart and Gray Road Warehouse Project.

Linscott, Law & Greenspan, Engineers (LLG). 2023. Transportation Impact Study, Prologis Stewart & Fray Road Warehouse Project. January 19.

Los Angeles Airport Land Use Commission. Airports. Available at: https://planning.lacounty.gov/aluc/airports. Accessed December 2022.

U.S. Department of Transportation (USDOT). 2008. Roadway Construction Noise Model Version 1.1. Available at: https://www.fhwa.dot.gov/environment/noise/construction_noise/rcnm/.

2004. Traffic Noise Model Version 2.5. Available at: https://www.fhwa.dot.gov/environment/noise/traffic_noise_model/tnm_v25/.

Appendix A

Mechanical Equipment Data Sheets

50PG03–28
Ultra High Efficiency Single Package Electric Cooling with Optional Electric Heat Commercial Rooftop Units with PURON® (R–410A) Refrigerant, Optional EnergyX™ (Energy Recovery Ventilator)

Carrier®
Turn to the Experts.℠

Product Data

CENTURION

EnergyX model shown

DEALER DESIGN AWARDS
theNEWS | GOLD

BUILDINGS magazine
Editors' Choice
TOP 100 PRODUCTS
2005

Puron
the environmentally sound refrigerant

Operation Air Quantity Limits

50PG03-16 Units

UNIT 50PG	COOLING (cfm)		HEATING (cfm) ELECTRIC HEAT	
	Min	Max	Min	Max
03	600	1000	600	1000
04	900	1500	900	1500
05	1200	2000	1200	2000
06	1500	2500	1500	2500
07	1800	3000	1800	3000
08	2250	3750	2250	3750
09	2550	4250	2550	4250
12	3000	5000	3000	5000
14	3750	6250	3750	6250
16	4500	7500	4500	7500

50PG20-28 Units

50PG	COOLING		ELECTRIC HEAT	ELECTRIC HEAT (Vertical)	ELECTRIC HEAT (Horizontal)
	Minimum Cfm	Maximum Cfm		Minimum Cfm	Minimum Cfm
20	5000	9,000	High Heat (75 kW)	4,500	5,400
			Medium Heat (50 kW)	3,750	4,800
			Low Heat (25 kW)	3,750	3,750
24	5500	10,000	High Heat (75 kW)	4,500	5,400
			Medium Heat (50 kW)	3,750	4,800
			Low Heat (25 kW)	3,750	3,750
28	6500	12,000	High Heat (75 kW)	4,500	5,400
			Medium Heat (50 kW)	3,750	4,800
			Low Heat (25 kW)	3,750	3,750

Outdoor Sound Power (Total Unit)

UNIT 50PG	A-WEIGHTED* (dB)	OCTAVE BAND LEVELS dB							
		63	125	250	500	1000	2000	4000	8000
03	75.0	82.6	79.9	75.7	73.3	70.0	64.3	58.4	50.5
04	73.2	79.8	77.2	74.1	70.1	68.0	63.6	58.4	51.9
05	71.9	79.7	79.6	72.6	69.6	66.0	61.4	56.4	48.5
06	78.5	82.2	82.6	79.5	75.7	73.9	68.6	64.0	56.3
07	78.5	87.5	83.0	78.5	76.3	73.8	68.4	63.8	56.5
08	80.0	91.7	83.6	81.0	77.9	75.0	69.9	66.0	59.3
09	79.9	89.1	82.7	80.0	77.7	75.0	70.2	66.3	57.8
12	80.0	90.4	83.1	80.9	77.8	75.2	70.0	66.1	57.6
14	83.3	86.4	85.9	85.3	81.8	78.2	72.2	67.9	59.9
16	84.0	90.3	85.2	83.5	81.1	79.0	73.7	70.5	65.4
20	81.7	90.2	84.8	80.7	79.0	77.6	71.4	66.7	60.7
24	84.9	90.0	86.3	83.6	82.9	80.3	74.9	71.4	66.5
28	84.9	90.0	86.3	83.6	82.9	80.3	74.9	71.4	66.5

LEGEND

db – Decibel

*Sound Rating ARI or Tone Adjusted, A–Weighted Sound Power Level in dB. For sizes 03–12, the sound rating is in accordance with ARI Standard 270–1995. For sizes 14–28, the sound rating is in accordance with ARI 370–2001.

Outdoor Sound Power (Total Unit)
with High CFM EnergyX

UNIT 50PG w/ERV	A−WEIGHTED* (dB)	OCTAVE BAND LEVELS dB							
		63	125	250	500	1000	2000	4000	8000
03	83.0	82.8	81.4	79.7	78.1	77.9	76.5	72.5	70.1
04	82.7	80.2	79.6	79.1	77.3	77.6	76.5	72.5	70.1
05	82.6	80.1	81.1	78.8	77.2	77.4	76.4	72.4	70.0
06	83.8	82.4	83.4	81.6	79.1	78.8	76.9	72.9	70.2
07	83.8	87.6	83.8	81.1	79.3	78.8	76.9	72.9	70.2
08	87.3	92.0	86.8	84.5	82.4	81.8	80.5	78.0	74.2
09	87.2	89.6	86.4	84.1	82.4	81.8	80.5	78.1	74.2
12	87.3	90.8	86.5	84.5	82.4	81.8	80.5	78.0	74.2
14	88.2	87.2	88.0	87.0	84.2	82.7	80.8	78.2	74.3
16	91.4	93.2	92.8	88.2	86.3	85.5	84.4	83.4	78.4
20	91.2	93.1	92.7	87.4	85.8	85.2	84.2	83.3	78.3
24	91.7	93.0	93.0	88.2	86.9	85.8	84.5	83.5	78.5
28	91.7	93.0	93.0	88.2	86.9	85.8	84.5	83.5	78.5

LEGEND
dB − Decibel
***** Sound Rating ARI or tone Adjusted, A−Weighted Sound Power Level in dB. For sizes 03−12, the sound rating is in accordance with ARI Standard 270−1995. For sizes 14−28, the sound rating is in accordance with ARI 370−2001.

PHYSICAL DATA

50PG03-07

BASE UNIT 50PG		03	04	05	06	07
NOMINAL CAPACITY (Tons)		2	3	4	5	6
OPERATING WEIGHT (lb)						
Unit*		704	704	775	829	874
Economizer						
Vertical		40	40	40	40	40
Horizontal		50	50	50	50	50
Humidi-MiZer™ Adaptive Dehumidification System		22	22	31	27	26
Roof Curb						
14-in.		122	122	122	122	122
24-in.		184	184	184	184	184
COMPRESSOR		Fully Hermetic Scroll				
Quantity		1	1	1	1	1
Oil Type		Copeland 3MA				
Number of Refrigerant Circuits		1	1	1	1	1
Oil (oz)		38	42	42	66	56
REFRIGERANT TYPE		R-410A (Puron® Refrigerant)				
Expansion Device		TXV	TXV	TXV	TXV	TXV
Operating Charge (lb) — Standard Unit		7.3	9.0	15.7	16.6	19.0
Operating Charge (lb) — Unit with Humidi-MiZer System		11.75	13.50	25.00	22.00	22.70
CONDENSER COIL		Enhanced Copper Tubes, Aluminum Lanced Fins				
Condenser A (Outer)						
Rows...Fins/in.		1…17	1…17	2…17	2…17	2…17
Face Area (sq ft)		12.6	12.6	12.6	12.6	12.6
Condenser B (Inner)						
Rows...Fins/in.		—	1…17	2…17	2…17	2…17
Face Area (sq ft)		—	12.6	12.6	12.6	12.6
HUMIDI–MIZER COIL		Enhanced Copper Tubes, Aluminum Lanced Fins				
Rows...Fins/in.		1...17	1...17	1...17	1...17	1...17
Face Area (sq ft)		6.4	6.4	9.3	9.3	9.3
CONDENSER FAN		Propeller				
Quantity…Diameter (in.)		1…24	1…24	1…24	1…24	1…24
Nominal Cfm (Total, all fans)		3500	3500	3500	4500	4500
Motor Hp		1/8	1/8	1/8	1/4	1/4
Nominal Rpm — High Speed		825	825	825	1100	1100
Nominal Rpm — Low Speed		300	300	300	300	300
EVAPORATOR COIL		Enhanced Copper Tubes, Aluminum Double-Wavy Fins, Face Split				
Rows…Fins/in.		2…15	2…15	2…15	3…15	4…15
Face Area (sq ft)		9.3	9.3	9.3	9.3	9.3
EVAPORATOR FAN		Centrifugal Type, Belt Drive				
Quantity…Size (in.)	Low	1...12 x 9	1...12 x 9	1...12 x 9	1...12 x 9	1...12 x 9
	High	1...12 x 9	1...12 x 9	1...12 x 9	1...12 x 9	1...12 x 9
Type Drive	Low	Belt	Belt	Belt	Belt	Belt
	High	Belt	Belt	Belt	Belt	Belt
Nominal Cfm		800	1200	1600	2000	2400
Maximum Continuous Bhp	Low	0.85	0.85	0.85	0.85/2.40†	2.40
	High	0.85	0.85	1.60/2.40†	1.60/2.40†	3.10
Motor Nominal Rpm		1620	1620	1620	1725	1725
Motor Frame Size	Low	48Y	48Y	48Y	56Y	56Y
	High	48Y	48Y	56Y	56Y	56Y
Fan Rpm Range	Low	482-736	482-736	596-910	690-978	796-1128
	High	656-1001	796-1128	828-1173	929-1261	1150-1438
Motor Bearing Type		Ball	Ball	Ball	Ball	Ball
Maximum Fan Rpm		2000	2000	2000	2000	2000
Motor Pulley Pitch Diameter Range (in.)	Low	1.9-2.9	1.9-2.9	1.9-2.9	2.4-3.4	2.4-3.4
	High	1.9-2.9	2.4-3.4	2.4-3.4	2.8-3.8	4.0-5.0
Fan Pulley Pitch Diameter (in.)	Low	6.8	6.8	5.5	6.0	5.2
	High	5.0	5.2	5.0	5.2	6.0
Nominal Motor Shaft Diameter (in.)	Low	1/2	1/2	1/2	5/8	5/8
	High	1/2	1/2	5/8	5/8	7/8
Belt…Pitch Length (in.)	Low	49.3	49.3	49.3	49.3	49.3
	High	49.3	49.3	49.3	49.3	52.3
Belt…Type	Low	AX	AX	AX	AX	AX
	High	AX	AX	AX	AX	AX
Pulley Center Line Distance Min. (in.)	Low	16.2	16.2	16.2	16.2	16.2
	High	16.2	16.2	16.2	16.2	16.2
Pulley Center Line Distance Max. (in.)	Low	20.2	20.2	20.2	20.2	20.2
	High	20.2	20.2	20.2	20.2	20.2
Speed Change per Full Turn of Movable Pulley Flange (rpm)	Low	48	48	59	58	66
	High	65	62	69	66	58
Movable Pulley Maximum Full Turns from Closed Position	Low	5	5	5	5	5
	High	5	5	5	5	5
Factory Pulley Setting (rpm)	Low	482	482	596	690	796
	High	656	796	828	929	1150
Fan Shaft Diameter at Pulley (in.)		3/4	3/4	3/4	3/4	3/4
HIGH-PRESSURE SWITCH (psig)						
Cutout		660 ± 10	660 ± 10	660 ± 10	660 ± 10	660 ± 10
Reset (Auto.)		505 ± 20	505 ± 20	505 ± 20	505 ± 20	505 ± 20
RETURN-AIR FILTERS		Throwaway				
Quantity…Size (in.)		4…16 x 20 x 2	4…16 x 20 x 2	4…16 x 20 x 2	4…16 x 20 x 2	4…16 x 20 x 2

LEGEND

TXV – Thermostatic Expansion Valve

*Aluminum evaporator coil/aluminum condenser coil.

† Single phase/three phase

HUSSMANN®

Proto-Aire Outdoor Protocol

Environmental Benefits Compared to Traditional Rack Systems.

- Better energy efficiency reduces use of fossil fuels, reduces air pollution.
- Significantly smaller refrigerant charge reduces use of HFCs.
- Significantly lower refrigerant leak rate.

PROTO-AIRE

Outdoor Small Footprint Protocol Solution.

Proto-Aire is a compact footprint outdoor Protocol unit with an integrated air-cooled condenser and weatherproof skins. Units can be installed outside next to the store or on the roof. This allows for more flexibility with Protocol store designs and reduces space requirements for equipment inside the store.

Sustainable Solutions.

Protocol is the most widely used refrigeration system directly addressing today's environmental concerns. We are using the phrase "Sustainable Solutions" to underscore Protocol's important role in helping address environmental issues.

Hussmann is committed to developing advanced technologies that reduce the use of HFCs and improve energy efficiency. Protocol is just one of many alternatives we offer to promote sustainable solutions.

Several condenser sizes.

Proto-Aire is sized based on the compressor load and the heat of rejection requirements for the compressors. The largest condenser can support up to 450 MBH at a 20˚F TD.

Features and options.

- Weatherproof outdoor enclosure.
- Factory installed suction filters and liquid driers.
- Optional factory-installed gas defrost valves and winter control.
- Optional Polyfin and Electrofin coil coating.
- Optional oversized receiver with heat tape and insulation.
- Optional hail guards and rain doors.

All standard Protocol options.

Since the Proto-Aire builds upon the Protocol frame, all standard Protocol mechanical and electrical options are available with Proto-Aire.

Proto-Aire environmental advantages.

- Significant reduction in refrigerant charge.
- Significant reduction in greenhouse gas emissions.
- Better energy efficiency in virtually all applications.
- Less copper refrigerant piping.
- Fewer braze joints for fewer leaks.

Other advantages.

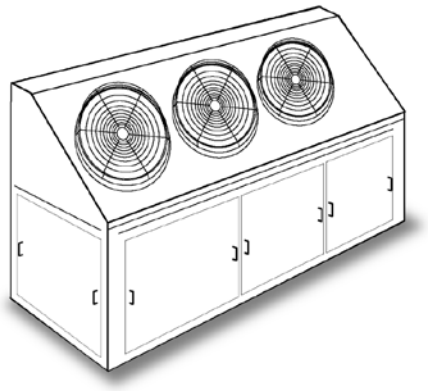
- Easy to install.
- No machine room needed.
- Lower installation costs.
- Decreases or eliminates the need for EPRs.
- Compact footprint.

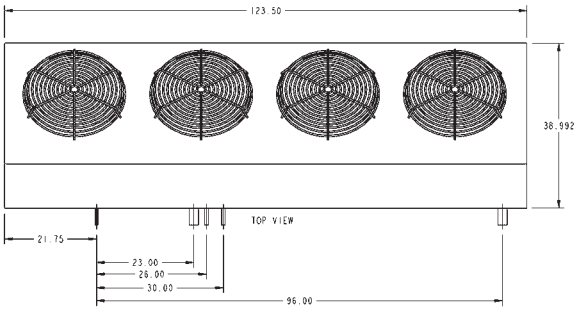
Proto-Aire dimensions.

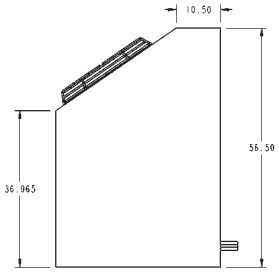
Nomenclature	(in)	(in)	(in)	(lb)
3 and 4 Fan	128	56.5	42	2800
6 Fan (Super)	185	56.5	42	3700

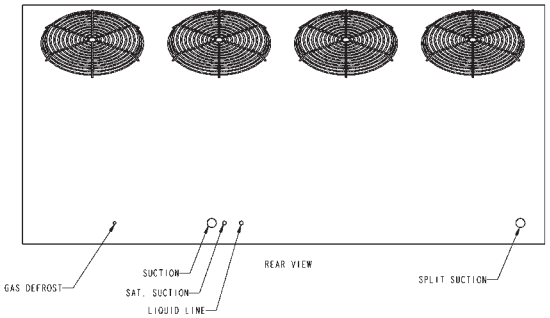
NOTE: We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions, or replacements for equipment previously sold or shipped.

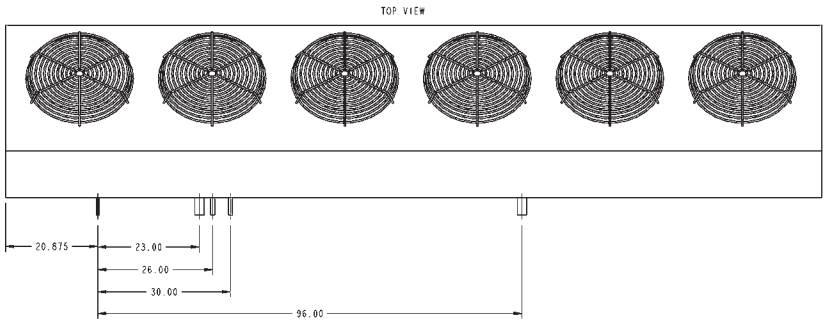
For additional resources, contact your representative or visit www.hussmann.com.

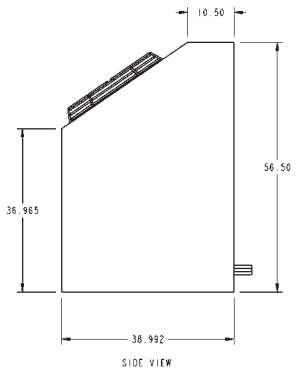


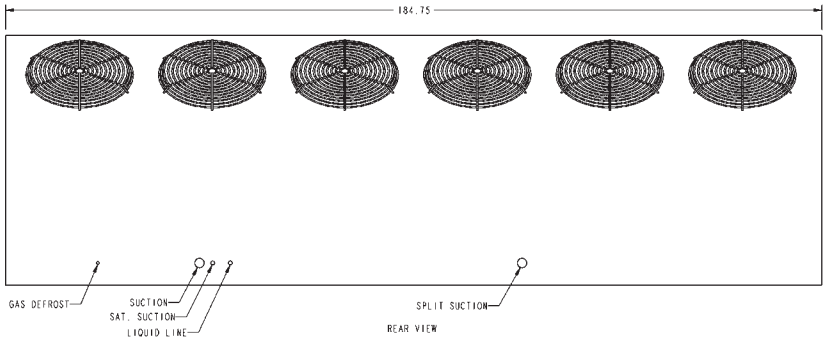












HUSSMANN®

Hussmann Corporation
12999 St. Charles Rock Rd.
Bridgeton, MO 63044-2483
Ph: 314.291.2000

www.hussmann.com

Printed in U.S.A. ©2012 Hussmann Corporation

Appendix B

RCNM Output

Report date: 12/9/2022
Case Description: Downey Prologis

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Residence	Residential	70	70	70

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	340	0
Dozer	No	40		81.7	340	0
Excavator	No	40		80.7	340	0

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Saw	72.9	65.9
Dozer	65	61
Excavator	64.1	60.1
Total	72.9	67.9

*Calculated Lmax is the Loudest value.

Report date: 10/12/2023
Case Description: Downey Prologis Night Concrete Pounring

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Residence	Residential	70	70	70

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	300	0
Concrete Mixer Truck	No	40		78.8	300	0
Concrete Mixer Truck	No	40		78.8	300	0
Concrete Pump Truck	No	20		81.4	300	0

Calculated (dBA)

Equipment		*Lmax	Leq
Backhoe		62	58
Concrete Mixer Truck		63.2	59.3
Concrete Mixer Truck		63.2	59.3
Concrete Pump Truck		65.8	58.8
	Total	65.8	64.9

*Calculated Lmax is the Loudest value.

Appendix C

CadnaA Output

Prologis Stewart and Gray Road Warehouse Project
On-Site Operations
CadnaA version 2021 - Sound Level Library

Name	ID	Type	1/3 Oktave Spectrum (dB)										
			Weight.	63	125	250	500	1000	2000	4000	8000	A	lin
Hussman Proto-Air 3280 Condenser	RFRG	Li		90.6	93.6	89.6	86.6	84.6	79.6	75.6		89.3	97.2
Carrier 50PG HVAC	HVAC	Li		90.4	83.1	80.9	77.8	75.2	70	66.1	57.6	80.2	91.9
TRU	TRU	Lw (c)						99.1				99.1	99.1
Backup Alarm	ALRM	Li						106.6				106.6	106.6
Truck Idling	IDLE	Li						96				96	96

Prologis Stewart and Gray Road Warehouse Project
On-Site Operations
CadnaA version 2021 - Point Source Table

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			K0	Freq.	Direct.	Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night						X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
HVAC		HVAC	80.2	80.2	80.2	Lw	HVAC					0		(none)	1	g	396428.56	3754986.04	14.72
HVAC		HVAC	80.2	80.2	80.2	Lw	HVAC					0		(none)	1	g	396430.22	3754758.7	14.72
HVAC		HVAC	80.2	80.2	80.2	Lw	HVAC					0		(none)	1	g	396618.73	3754760.35	14.72
Refrigeration Condensor		RFRG	89.3	89.3	89.3	Lw	RFRG					0		(none)	1	g	396518.83	3754994.48	14.72
Refrigeration Condensor		RFRG	89.3	89.3	89.3	Lw	RFRG					0		(none)	1	g	396441.81	3754876.26	14.72
Refrigeration Condensor		RFRG	89.3	89.3	89.3	Lw	RFRG					0		(none)	1	g	396531.75	3754745.83	14.72
Refrigeration Condensor		RFRG	89.3	89.3	89.3	Lw	RFRG					0		(none)	1	g	396603.44	3754873.61	14.72
Truck Idling		IDLE	96	96	96	Lw	IDLE		20	0	10	0		(none)	2	r	396428.45	3754893.21	2
Truck Idling		IDLE	96	96	96	Lw	IDLE		20	0	10	0		(none)	2	r	396389.24	3754864.58	2
Truck Idling		IDLE	96	96	96	Lw	IDLE		20	0	10	0		(none)	2	r	396495.77	3755007.74	2
Truck Idling		IDLE	96	96	96	Lw	IDLE		20	0	10	0		(none)	2	r	396467.76	3755050.09	2
Truck Idling		IDLE	96	96	96	Lw	IDLE		20	0	10	0		(none)	2	r	396621.02	3754902.15	2
Truck Idling		IDLE	96	96	96	Lw	IDLE		20	0	10	0		(none)	2	r	396673.29	3754868.87	2
TRU Docks		TRU	99.1	99.1	99.1	Lw	TRU		30	0	15	0		(none)	2	r	396428.79	3754893.19	2
TRU Docks		TRU	99.1	99.1	99.1	Lw	TRU		30	0	15	0		(none)	2	r	396495.8	3755007.44	2
TRU Docks		TRU	99.1	99.1	99.1	Lw	TRU		30	0	15	0		(none)	2	r	396620.65	3754902.15	2
TRU Parking		TRU	99.1	99.1	99.1	Lw	TRU		2.5	0	1.25	0		(none)	2	r	396388.79	3754864.63	2
TRU Parking		TRU	99.1	99.1	99.1	Lw	TRU		2.5	0	1.25	0		(none)	2	r	396467.74	3755050.47	2
TRU Parking		TRU	99.1	99.1	99.1	Lw	TRU		2.5	0	1.25	0		(none)	2	r	396673.86	3754868.92	2

Prologis Stewart and Gray Road Warehouse Project
On-Site Operations
CadnaA version 2021 - Line Source Table

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li				Operating Time			K0	Freq.	Direct.
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Area	Day	Special	Night			
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(m^2)	(min)	(min)	(min)	(dB)	(Hz)	
Backup Alarm East Docks		ALM	121.7	121.7	121.7	106.6	106.6	106.6	Lw'	ALRM			1.6	0	0.8	0		(none)
Backup Alarm North Docks		ALM	120.7	120.7	120.7	106.6	106.6	106.6	Lw'	ALRM			1.2	0	0.6	0		(none)
Backup Alarm West Docks		ALM	121.9	121.9	121.9	106.6	106.6	106.6	Lw'	ALRM			1.6	0	0.8	0		(none)
Backup Alarm East Parking		ALM	120.7	120.7	120.7	106.6	106.6	106.6	Lw'	ALRM			1.2	0	0.6	0		(none)
Backup Alarm North Parking		ALM	120.1	120.1	120.1	106.6	106.6	106.6	Lw'	ALRM			1.1	0	0.55	0		(none)
Backup Alarm North Parking		ALM	120.2	120.2	120.2	106.6	106.6	106.6	Lw'	ALRM			1.1	0	0.55	0		(none)
TRU Circulation East		TRUC	125.7	125.7	125.7	99.1	99.1	99.1	Lw'	TRU			1.1	0	0.55	0		(none)
TRU Circulation North		TRUC	124.3	124.3	124.3	99.1	99.1	99.1	Lw'	TRU			0.8	0	0.4	0		(none)
TRU Circulation West		TRUC	125.9	125.9	125.9	99.1	99.1	99.1	Lw'	TRU			1.1	0	0.55	0		(none)

Prologis Stewart and Gray Road Warehouse Project
On-Site Operations
CadnaA version 2021 - Road Source Table

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Eveni	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
Truck Circulation Hall Road Entry 1		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck Circulation S&G Hall Road Entry 1		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck Circulation S&G Hall Road Entry 2		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck Reversing East Docks		TruckR	57.2	0	54.2			4	0	2	100	0	100	5		0	0	1	0	0		
Truck Reversing North Docks		TruckR	57.2	0	54.2			4	0	2	100	0	100	5		0	0	1	0	0		
Truck Reversing West Docks		TruckR	57.2	0	54.2			4	0	2	100	0	100	5		0	0	1	0	0		
Truck to East Parking		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck to North Parking		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck to West Parking		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck Reversing East Parking		TruckR	57.2	0	54.2			4	0	2	100	0	100	5		0	0	1	0	0		
Truck Reversing North Parking		TruckR	57.2	0	54.2			4	0	2	100	0	100	5		0	0	1	0	0		
Truck Reversing West Parking		TruckR	57.2	0	54.2			4	0	2	100	0	100	5		0	0	1	0	0		
Truck Circulation S&G Hall Road Exit 1		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck Circulation S&G Hall Road Exit 2		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		
Truck Circulation Hall Road Exit 1		TruckC	52.7	0	49.7			4	0	2	100	0	100	13		0	0	1	0	0		

Prologis Stewart and Gray Road Warehouse Project
On-Site Operations
CadnaA version 2021 - Receiver Table

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
Residential 1		R1	59.6	56.6	0	0		x	Total	1.52	r	396359.9	3754641.84	1.52
Residential 2		R2	59.2	56.2	0	0		x	Total	1.52	r	396806.61	3754970.9	1.52
Residential 3		R3	39.7	36.7	0	0		x	Total	1.52	r	396286.64	3755120.16	1.52
Residential 4		R4	33.5	30.6	0	0		x	Total	1.52	r	396286.28	3754931.56	1.52
Residential 5		R5	34.1	31.2	0	0		x	Total	1.52	r	396288.93	3754816.16	1.52
Residential 6		R6	54.5	51.5	0	0		x	Total	1.52	r	396289.07	3754729.15	1.52
Industrial 1		I1	59.8	56.8	0	0		x	Total	1.52	r	396437.65	3754689.45	1.52
Industrial 2		I2	63.8	60.8	0	0		x	Total	1.52	r	396654.92	3754692.39	1.52
Industrial 3		I3	62.1	59.1	0	0		x	Total	1.52	r	396367.31	3755096.3	1.52
Industrial 4		I4	67.7	64.7	0	0		x	Total	1.52	r	396367.69	3754922.19	1.52
Industrial 5		I5	66.8	63.8	0	0		x	Total	1.52	r	396367.71	3754756.41	1.52
Commercial 1		C1	62.4	59.4	0	0		x	Total	1.52	r	396734.79	3754741.51	1.52
Commercial 2		C2	64.8	61.8	0	0		x	Total	1.52	r	396731.47	3754913.66	1.52

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Existing
CadnaA version 2021 - Road Source Table

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
Firestone Blvd 1			68	0	0			2858	0	0	8	0	0	64		w28	0	1	0	0		
Firestone Blvd 2			69.4	0	0			3952	0	0	8	0	0	64		w28	0	1	0	0		
Woodruff Ave 1			64.7	0	0			1342	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 2			64.7	0	0			1330	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 3			64.6	0	0			1287	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 4			65.1	0	0			1469	0	0	8	0	0	64		w24	0	1	0	0		
Hall Rd 1			51.3	0	0			163	0	0	8	0	0	40		w12	0	1	0	0		
Stewart & Gray Rd 1			65.3	0	0			1516	0	0	8	0	0	64		w19	0	1	0	0		
Stewart & Gray Rd 2			64.2	0	0			1189	0	0	8	0	0	64		w19	0	1	0	0		
Washburn Road 1			54.9	0	0			271	0	0	8	0	0	48		w12	0	1	0	0		
Imperial Hwy 1			67.5	0	0			2532	0	0	8	0	0	64		w24	0	1	0	0		
Imperial Hwy 2			68.1	0	0			2895	0	0	8	0	0	64		w24	0	1	0	0		

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Existing
CadnaA version 2021 - Receiver Table

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
Firestone 1 R1			71.3	-65.9	0	0		x	Total	1.52	r	397171.58	3754956.76	1.52
Firestone 2 C1			70.8	-67.6	0	0		x	Total	1.52	r	397351.87	3754846.62	1.52
Woodruff 1 R1			68.4	-65.5	0	0		x	Total	1.52	r	396804.23	3754968.92	1.52
Woodruff 2 C1			69.3	-64.8	0	0		x	Total	1.52	r	396802.29	3754813.67	1.52
Woodruff 3 C1			68.1	-65.8	0	0		x	Total	1.52	r	396759.7	3754486.56	1.52
Woodruff 4 R1			69.3	-65.4	0	0		x	Total	1.52	r	396762.28	3753978.11	1.52
Hall C1			59.3	-63.1	0	0		x	Total	1.52	r	396366.04	3755128.39	1.52
Stewart & Gray 1 C1			70.5	-64.3	0	0		x	Total	1.52	r	396634.18	3754681.84	1.52
Stewart & Gray 2 R1			67.8	-66.2	0	0		x	Total	1.52	r	396998.8	3754824.2	1.52
Washburn R1			62.5	-63.4	0	0		x	Total	1.52	r	396517.77	3754323.62	1.52
Imperial 1 R1			74	-63	0	0		x	Total	1.52	r	396556.8	3753565.04	1.52
Imperial 2 R1			69.9	-67.4	0	0		x	Total	1.52	r	397076.96	3753578.78	1.52

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Existing + Project
CadnaA version 2021 - Road Source Table

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
Firestone Blvd 1			68	0	0			2871	0	0	8	0	0	64		w28	0	1	0	0		
Firestone Blvd 2			69.5	0	0			4016	0	0	8	0	0	64		w28	0	1	0	0		
Woodruff Ave 1			64.9	0	0			1388	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 2			65	0	0			1415	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 3			64.7	0	0			1324	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 4			65.2	0	0			1487	0	0	8	0	0	64		w24	0	1	0	0		
Hall Rd 1			53.3	0	0			260	0	0	8	0	0	40		w12	0	1	0	0		
Stewart & Gray Rd 1			65.4	0	0			1553	0	0	8	0	0	64		w19	0	1	0	0		
Stewart & Gray Rd 2			64.4	0	0			1240	0	0	8	0	0	64		w19	0	1	0	0		
Washburn Road 1			55.1	0	0			288	0	0	8	0	0	48		w12	0	1	0	0		
Imperial Hwy 1			67.5	0	0			2545	0	0	8	0	0	64		w24	0	1	0	0		
Imperial Hwy 2			68.1	0	0			2908	0	0	8	0	0	64		w24	0	1	0	0		

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Existing + Project
CadnaA version 2021 - Receiver Table

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
Firestone 1 R1			71.3	-65.9	0	0		x	Total	1.52	r	397171.58	3754956.76	1.52
Firestone 2 C1			70.9	-67.6	0	0		x	Total	1.52	r	397351.87	3754846.62	1.52
Woodruff 1 R1			68.5	-65.5	0	0		x	Total	1.52	r	396804.23	3754968.92	1.52
Woodruff 2 C1			69.6	-64.8	0	0		x	Total	1.52	r	396802.29	3754813.67	1.52
Woodruff 3 C1			68.2	-65.8	0	0		x	Total	1.52	r	396759.7	3754486.56	1.52
Woodruff 4 R1			69.3	-65.4	0	0		x	Total	1.52	r	396762.28	3753978.11	1.52
Hall C1			60.8	-63.1	0	0		x	Total	1.52	r	396366.04	3755128.39	1.52
Stewart & Gray 1 C1			70.6	-64.3	0	0		x	Total	1.52	r	396634.18	3754681.84	1.52
Stewart & Gray 2 R1			67.9	-66.2	0	0		x	Total	1.52	r	396998.8	3754824.2	1.52
Washburn R1			62.7	-63.4	0	0		x	Total	1.52	r	396517.77	3754323.62	1.52
Imperial 1 R1			74	-63	0	0		x	Total	1.52	r	396556.8	3753565.04	1.52
Imperial 2 R1			69.9	-67.4	0	0		x	Total	1.52	r	397076.96	3753578.78	1.52

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Cumulaitve (2024)
CadnaA version 2021 - Road Source Table

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
Firestone Blvd 1			68.2	0	0			2975	0	0	8	0	0	64		w28	0	1	0	0		
Firestone Blvd 2			69.6	0	0			4143	0	0	8	0	0	64		w28	0	1	0	0		
Woodruff Ave 1			64.9	0	0			1399	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 2			64.9	0	0			1388	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 3			64.9	0	0			1381	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 4			65.4	0	0			1546	0	0	8	0	0	64		w24	0	1	0	0		
Hall Rd 1			51.4	0	0			166	0	0	8	0	0	40		w12	0	1	0	0		
Stewart & Gray Rd 1			65.4	0	0			1546	0	0	8	0	0	64		w19	0	1	0	0		
Stewart & Gray Rd 2			64.5	0	0			1265	0	0	8	0	0	64		w19	0	1	0	0		
Washburn Road 1			55	0	0			278	0	0	8	0	0	48		w12	0	1	0	0		
Imperial Hwy 1			67.6	0	0			2596	0	0	8	0	0	64		w24	0	1	0	0		
Imperial Hwy 2			68.2	0	0			2965	0	0	8	0	0	64		w24	0	1	0	0		

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Cumulaitve (2024)
CadnaA version 2021 - Receiver Table

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
Firestone 1 R1			71.4	-65.9	0	0		x	Total	1.52	r	397171.58	3754956.76	1.52
Firestone 2 C1			71	-67.6	0	0		x	Total	1.52	r	397351.87	3754846.62	1.52
Woodruff 1 R1			68.6	-65.5	0	0		x	Total	1.52	r	396804.23	3754968.92	1.52
Woodruff 2 C1			69.5	-64.8	0	0		x	Total	1.52	r	396802.29	3754813.67	1.52
Woodruff 3 C1			68.4	-65.8	0	0		x	Total	1.52	r	396759.7	3754486.56	1.52
Woodruff 4 R1			69.5	-65.4	0	0		x	Total	1.52	r	396762.28	3753978.11	1.52
Hall C1			59.2	-63.4	0	0		x	Total	1.52	r	396366.4	3755129.01	1.52
Stewart & Gray 1 C1			70.5	-64.3	0	0		x	Total	1.52	r	396634.18	3754681.84	1.52
Stewart & Gray 2 R1			68	-66.2	0	0		x	Total	1.52	r	396998.8	3754824.2	1.52
Washburn R1			62.6	-63.4	0	0		x	Total	1.52	r	396517.77	3754323.62	1.52
Imperial 1 R1			74.1	-63	0	0		x	Total	1.52	r	396556.8	3753565.04	1.52
Imperial 2 R1			70	-67.4	0	0		x	Total	1.52	r	397076.96	3753578.78	1.52

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Cumulaitve (2024) + Project
CadnaA version 2021 - Road Source Table

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
Firestone Blvd 1			68.2	0	0			2988	0	0	8	0	0	64		w28	0	1	0	0		
Firestone Blvd 2			69.7	0	0			4207	0	0	8	0	0	64		w28	0	1	0	0		
Woodruff Ave 1			65.1	0	0			1445	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 2			65.1	0	0			1473	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 3			65	0	0			1418	0	0	8	0	0	64		w24	0	1	0	0		
Woodruff Ave 4			65.4	0	0			1564	0	0	8	0	0	64		w24	0	1	0	0		
Hall Rd 1			53.4	0	0			263	0	0	8	0	0	40		w12	0	1	0	0		
Stewart & Gray Rd 1			65.5	0	0			1583	0	0	8	0	0	64		w19	0	1	0	0		
Stewart & Gray Rd 2			64.7	0	0			1316	0	0	8	0	0	64		w19	0	1	0	0		
Washburn Road 1			55.2	0	0			293	0	0	8	0	0	48		w12	0	1	0	0		
Imperial Hwy 1			67.6	0	0			2609	0	0	8	0	0	64		w24	0	1	0	0		
Imperial Hwy 2			68.2	0	0			2978	0	0	8	0	0	64		w24	0	1	0	0		

Prologis Stewart and Gray Road Warehouse Project
Off-Site Traffic - Cumulaitve (2024) + Project
CadnaA version 2021 - Receiver Table

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
Firestone 1 R1			71.5	-65.9	0	0		x	Total	1.52	r	397171.58	3754956.76	1.52
Firestone 2 C1			71.1	-67.6	0	0		x	Total	1.52	r	397351.87	3754846.62	1.52
Woodruff 1 R1			68.7	-65.5	0	0		x	Total	1.52	r	396804.23	3754968.92	1.52
Woodruff 2 C1			69.7	-64.8	0	0		x	Total	1.52	r	396802.29	3754813.67	1.52
Woodruff 3 C1			68.5	-65.8	0	0		x	Total	1.52	r	396759.7	3754486.56	1.52
Woodruff 4 R1			69.5	-65.4	0	0		x	Total	1.52	r	396762.28	3753978.11	1.52
Hall C1			60.6	-63.4	0	0		x	Total	1.52	r	396366.06	3755129.01	1.52
Stewart & Gray 1 C1			70.7	-64.3	0	0		x	Total	1.52	r	396634.18	3754681.84	1.52
Stewart & Gray 2 R1			68.2	-66.2	0	0		x	Total	1.52	r	396998.8	3754824.2	1.52
Washburn R1			62.8	-63.4	0	0		x	Total	1.52	r	396517.77	3754323.62	1.52
Imperial 1 R1			74.1	-63	0	0		x	Total	1.52	r	396556.8	3753565.04	1.52
Imperial 2 R1			70	-67.4	0	0		x	Total	1.52	r	397076.96	3753578.78	1.52

Appendix L

Transportation Impact Study

LINSCOTT LAW & GREENSPAN engineers

TRANSPORTATION IMPACT STUDY

PROLOGIS STEWART & GRAY ROAD WAREHOUSE PROJECT

City of Downey, California
September 18, 2023

Prepared for:

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

LLG Ref. 1-21-4450-1

REGISTERED PROFESSIONAL ENGINEER
ALFRED C. YING
No. TR1944
Exp. 06/30/24
TRAFFIC
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DAVID S. SHENDER
No. C45324
Exp. 09/30/24
CIVIL
STATE OF CALIFORNIA

Prepared by:

Alfred C. Ying, P.E., PTP
Senior Transportation Engineer

Under the Supervision of:

David S. Shender, P.E.
Principal

Linscott, Law & Greenspan, Engineers

600 S. Lake Avenue
Suite 500
Pasadena, CA 91106

626.796.2322 T
626.792.0941 F
www.llgengineers.com

TABLE OF CONTENTS

SECTION			PAGE
1.0	**Introduction**		**1**
	1.1	Transportation Study Overview	1
	1.2	Study Methodology	1
	1.3	Los Angeles County Congestion Management Program Status	3
2.0	**Project Description**		**5**
	2.1	Existing Project Site	5
	2.2	Proposed Project Description	5
	2.3	Project Site Access	8
	2.4	Project Parking	8
	2.5	City Code Parking Requirements	8
	2.6	Project Trip Generation and Distribution	9
		2.6.1 Project Trip Generation	9
		2.6.2 Project Trip Distribution and Assignment	10
3.0	**Project Site Context**		**17**
	3.1	Non-Vehicle Network	17
		3.1.1 Pedestrian System	17
		3.1.2 Bicycle System	17
	3.2	Transit Network	20
	3.3	Vehicle Network	20
		3.3.1 Roadway Classifications	20
		3.3.2 Regional Highway System	23
		3.3.3 Roadway Descriptions	23
	3.4	Traffic Count Data	23
	3.5	Cumulative Development Projects	26
		3.5.1 Related Projects	30
		3.5.2 Ambient Traffic Growth Factor	35
4.0	**CEQA Transportation Assessment**		**36**
	4.1	Vehicle Miles Traveled (VMT) Project Screening	36
		4.1.1 Non-Retail Project Trip Generation Screening Criteria	36
		4.1.2 Retail Project Screening Criteria	37
		4.1.3 Proximity to Transit Screening Criteria	37
		4.1.4 Residential Project Screening Criteria	39
		4.1.5 Summary of Screening Conclusions	39
	4.2	Impact Criteria	39
	4.3	VMT Analysis	40
		4.3.1 CAPCOA Guidance and Project Design Features	40
	4.4	CEQA Transportation Mitigation Measures	43
	4.5	Cumulative Impact Analysis	46

TABLE OF CONTENTS *(continued)*

SECTION			PAGE
5.0	**Non-CEQA Analysis**		**48**
	5.1	Analysis Methodology	48
	5.2	Criteria for Non-CEQA Analysis	49
	5.3	Analysis Scenarios	50
	5.4	Existing Conditions	50
		5.4.1 Existing Conditions	50
		5.4.2 Existing With Project Conditions	52
	5.5	Future Year 2024 Cumulative Conditions	52
		5.5.1 Future Year 2024 Cumulative Without Project Conditions	52
		5.5.2 Future Year 2024 Cumulative With Project Conditions	57
6.0	**Roadway Segment Analysis**		**60**
	6.1	Roadway Segment Analysis	60
7.0	**Neighborhood Traffic Impact**		**62**
8.0	**California Department of Transportation Assessment**		**63**
	8.1	Vehicle Miles Traveled Analysis	63
	8.2	Off-Ramp Vehicle Queuing Analysis	63
9.0	**Summary and Conclusions**		**67**

APPENDICES

APPENDIX	
A.	Traffic, Pedestrian, and Bicycle Count Data
B.	VMT Reduction Calculation Worksheets
C.	ICU/HCM and Levels of Service Explanation ICU Data Worksheets – Weekday AM and PM Peak Hours HCM Data Worksheets – Weekday AM and PM Peak Hours

TABLE OF CONTENTS *(continued)*

LIST OF FIGURES

SECTION—FIGURE #		PAGE
1–1	Vicinity Map	2
2–1	Aerial Photograph of Existing Project Site	6
2–2	Site Plan	7
2–3	Project Trip Distribution (Passenger Cars)	12
2–4	Project Trip Distribution (Trucks)	13
2–5	Net Project Traffic Volumes – Weekday AM Peak Hour	14
2–6	Net Project Traffic Volumes – Weekday PM Peak Hour	15
3–1	Existing Nearby Pedestrian and Transit Facilities	18
3–2	Existing and Proposed Bikeway	19
3–3	Existing Transit Routes	22
3–4	Existing Lane Configurations	24
3–5	Existing Traffic Volumes – Weekday AM Peak Hour	28
3–6	Existing Traffic Volumes – Weekday PM Peak Hour	29
3–7	Location of Related Projects	32
3–8	Related Projects Traffic Volumes – Weekday AM Peak Hour	33
3–9	Related Projects Traffic Volumes – Weekday PM Peak Hour	34
4–1	Los Angeles County Transportation Analysis Zones	41
5–1	Existing With Project Traffic Volumes – Weekday AM Peak Hour	53
5–2	Existing With Project Traffic Volumes – Weekday PM Peak Hour	54
5–3	Future Without Project Traffic Volumes – Weekday AM Peak Hour	55
5–4	Future Without Project Traffic Volumes – Weekday PM Peak Hour	56
5–5	Future With Project Traffic Volumes – Weekday AM Peak Hour	58
5–6	Future With Project Traffic Volumes – Weekday PM Peak Hour	59

TABLE OF CONTENTS *(continued)*

LIST OF TABLES

SECTION—TABLE #		PAGE
2–1	Project Trip Generation Forecast	11
3–1	Existing Transit Routes	21
3–2	Existing Roadway Descriptions	25
3–3	Existing Traffic Volumes	27
3–4	Related Projects List and Trip Generation	31
4–1	Summary of Vehicle Miles Traveled (VMT) Analysis	44
5–1	Summary of Volume to Capacity Ratios, Delays and Levels of Service	51
6–1	Roadway Segment Analysis	61
8–1	Summary of Off-Ramp Vehicle Queuing	66

TRANSPORTATION IMPACT STUDY

PROLOGIS STEWART & GRAY ROAD WAREHOUSE PROJECT

City of Downey, California
September 18, 2023

1.0 INTRODUCTION

1.1 Transportation Study Overview

This transportation impact study has been conducted to identify and evaluate the potential transportation impacts of the proposed Prologis Stewart & Gray Road Warehouse project ("proposed project"). The project site is located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road in the City of Downey. The proposed project site is generally bounded by Hall Road to the north, Stewart & Gray Road to the south, a dance center and a collision repair business to the east, and industrial use to the west. The project site and general vicinity are shown in ***Figure 1-1***.

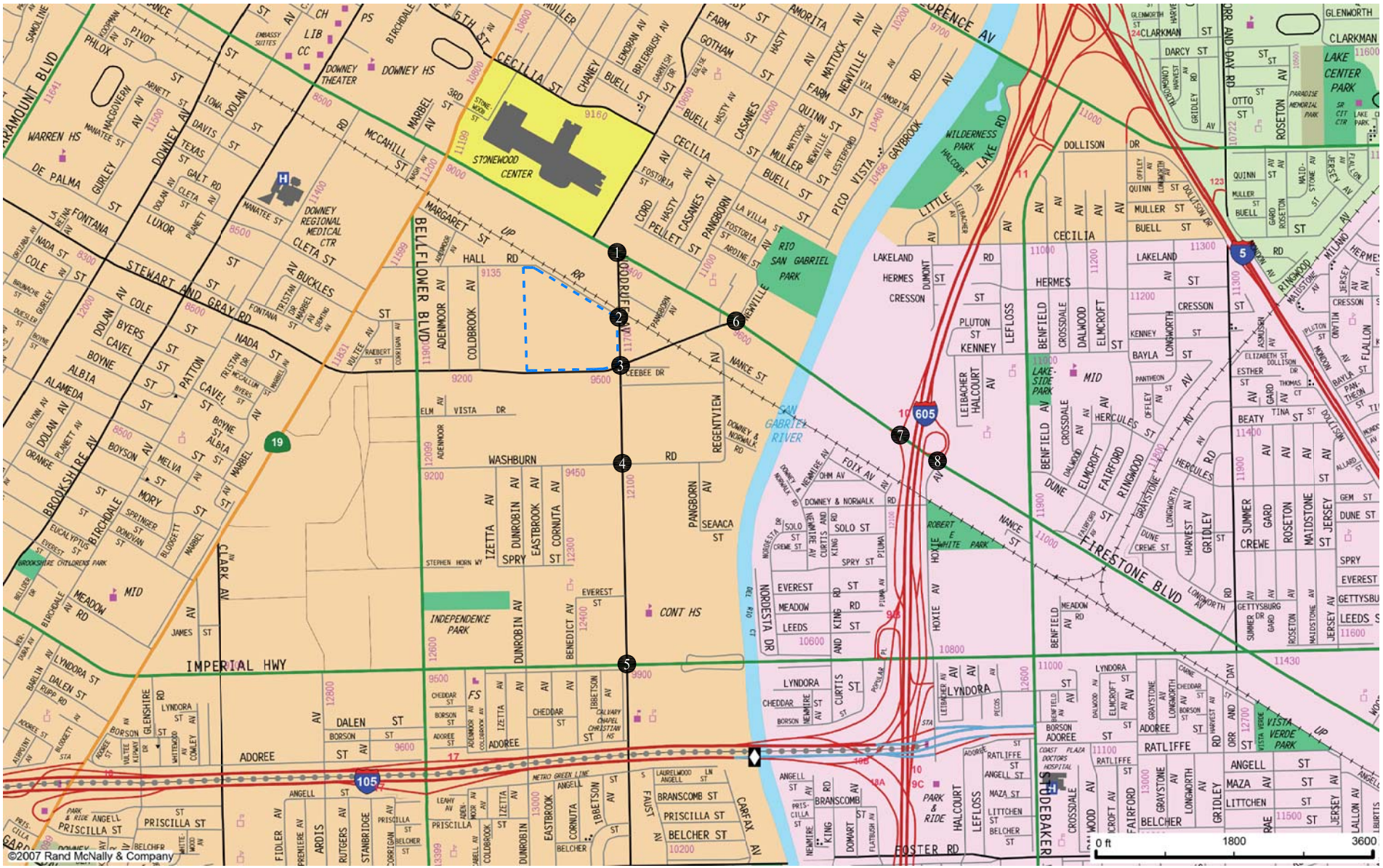
The transportation assessment follows the requirements set forth by the City of Downey. It is noted that the City of Downey has not yet adopted revised transportation assessment guidelines, however, a vehicle miles traveled (VMT) assessment has been prepared in compliance with Senate Bill (SB) 743. In addition, the City maintains vehicle Level of Service (LOS) standards for local transportation infrastructure. Therefore, the City has identified both CEQA based analysis requirements and non-CEQA based analysis requirements for analyzing the potential transportation impacts of proposed development projects.

This study evaluates potential project-related VMT impacts pursuant to the screening criteria and analysis tools approved for use by the City of Downey. The study also evaluates potential project-related effects on LOS at eight (8) key intersections in the vicinity of the project site. The study intersections were determined in consultation with City of Downey staff. The Intersection Capacity Utilization (ICU) method was used to determine LOS for the City of Downey study intersections.

This report (i) presents the proposed project's existing transportation network context, (ii) presents existing traffic volumes, (iii) forecasts cumulative baseline conditions, (iv) forecasts project-generated traffic, (v) assesses the potential for project-related transportation impacts consistent with the CEQA compliant and non-CEQA compliant metrics set forth by the City of Downey, and (vi) recommends transportation mitigation and/or improvement measures, where necessary.

1.2 Study Methodology

The CEQA and non-CEQA analysis criteria for this transportation assessment were identified in consultation with City of Downey staff. The analysis criteria were determined based on the City's



N

MAP SOURCE: RAND MCNALLY & COMPANY

Project Site

Study Locations

Figure 1-1
Vicinity Map

o:\job_file\4450\dwg\f1-1.dwg 08/17/2022 14:24:23 rodriquez

Guidelines, the proposed project description and location, and the characteristics of the surrounding transportation system.

On September 27, 2013, Governor Brown signed Senate Bill (SB) 743 (Steinberg, 2013). Among other things, SB 743 created a process to change the methodology to analyze transportation impacts under CEQA (Public Resources Code section 21000 and following) in order to promote 1) the reduction of greenhouse gas emissions, 2) the development of multimodal transportation networks, and 3) a diversity of land uses. On December 30, 2013, the State of California Governor's Office of Planning and Research (OPR) released a preliminary evaluation of alternative methods of transportation analysis, which included analysis based on project VMT rather than impacts to intersection LOS. OPR issued other draft discussion documents in March 2015 and January 2016, suggesting some new revisions to the state CEQA Guidelines. In November 2017, OPR submitted the proposed amendments to the CEQA Guidelines to the State's Natural Resources Agency (that include a proposed new Guidelines section 15064.3 which governs how VMT-based analyses of potential traffic impacts should be conducted). On January 26, 2018, the Natural Resources Agency published a Notice of Rulemaking, commencing the formal rulemaking process for the amendments to the CEQA Guidelines. On December 28, 2018, the California Office of Administrative Law adopted the proposed amendments, formally implementing the use of VMT as the metric for transportation analysis under CEQA and providing a grace period allowing local agencies to opt-in to the new metrics. State-wide implementation of the new metric was required by July 1, 2020.

Pursuant to current statutes, the County of Los Angeles has adopted VMT as the metric for determining environmental impacts in compliance with SB 743. On July 23, 2020, the County of Los Angeles Department of Public Works (LACPW) Traffic Safety & Mobility Division released its VMT-focused transportation analysis methodology and guidelines, *Transportation Impact Analysis Guidelines*[1]. Although the City of Downey has not yet adopted revised transportation impact assessment guidelines, a VMT assessment has been prepared to comply with this State legislation. In general, the City of Downey may elect to utilize LACPW's current *Transportation Impact Analysis Guidelines* as a benchmark for the TIA requirements, with variations as outlined in the City's future guidelines. While the City may formally adopt VMT methodology for environmental impact analysis, it should be noted that the City has retained a requirement for local intersection operational analyses. Therefore, this study also assumes preparation of intersection LOS analysis. Specifically, the Intersection Capacity Utilization (ICU) methodology is utilized to evaluate LOS at the City of Downey signalized study intersections.

1.3 Los Angeles County Congestion Management Program Status

The Los Angeles County Congestion Management Program (CMP) was previously a state-mandated program that was enacted by the California State Legislature with the passage of Proposition 111 in 1990 that primarily utilized a level of service (LOS) performance metric. Pursuant to California Government Code §65088.3, local jurisdictions may opt out of the CMP requirement without

[1] *Los Angeles County Department of Public Works (LACDPW) Transportation Impact Analysis Guidelines*, *July 23, 2020.*

penalty if a majority of the local jurisdictions representing a majority of the County's population formally adopt resolutions requesting to opt out of the program. As of November 2019, the majority of local agencies representing the majority of the County's population have adopted resolutions to opt out of the program. Therefore, the CMP is no longer applicable in Los Angeles County.

2.0 PROJECT DESCRIPTION

2.1 Existing Project Site

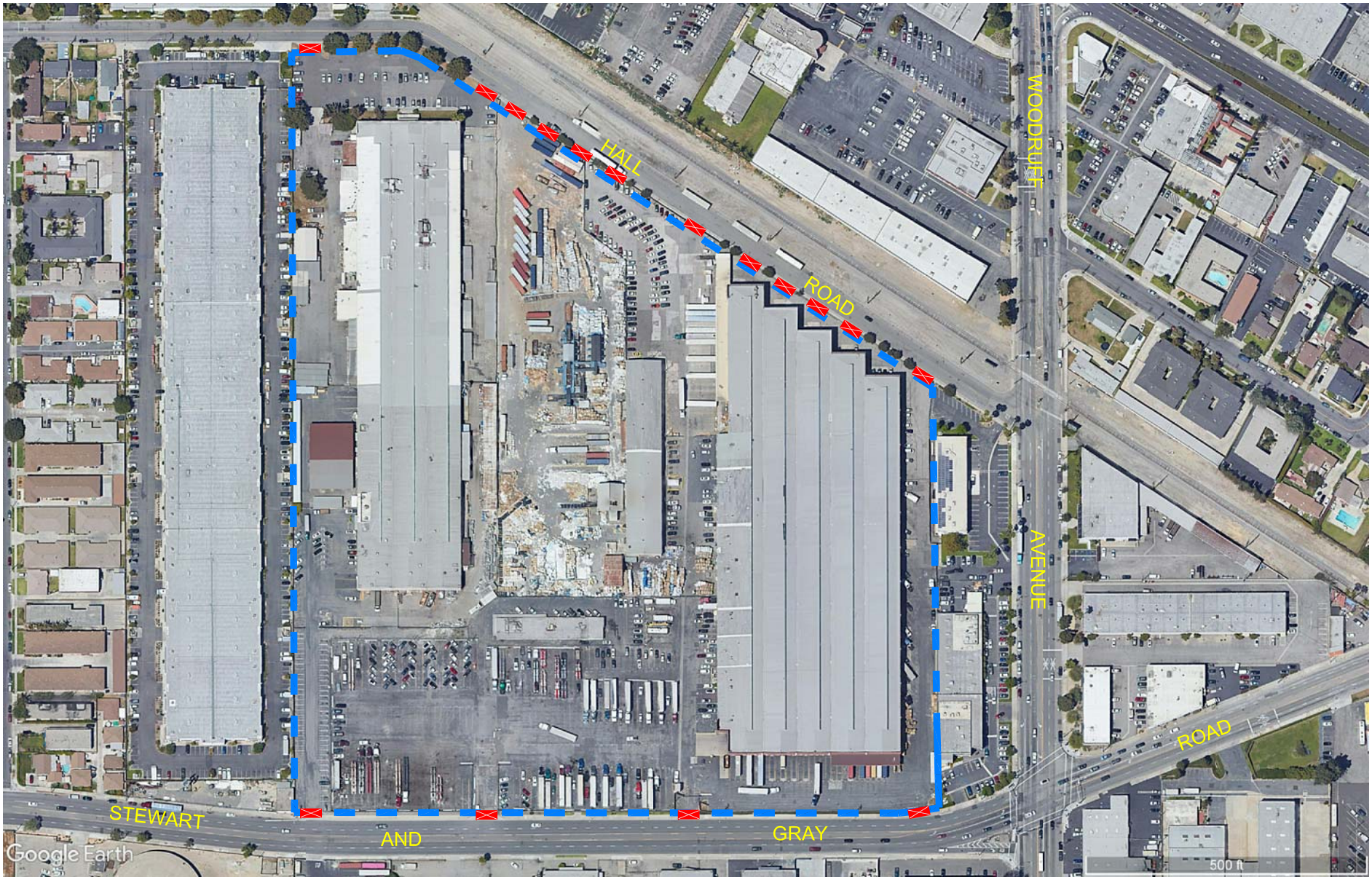
The project site is located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road in the City of Downey, California. The proposed project site is generally bounded by Hall Road to the north, Stewart & Gray Road to the south, a dance center and a collision repair business to the east, and industrial use to the west. The proposed project site and general vicinity are shown in *Figure 1-1*. The 29.16-acre project site consists of five parcels (APN's: 6284-019-013, 6284-019-014, 6284-019-015, 6284-019-017& 6284-019-016) and is currently developed with five industrial buildings located along Stewart & Gray Road to the south and Hall Road to the north, totaling approximately 433,000 square feet. An aerial photograph of the existing project site is presented in ***Figure 2-1***.

Vehicular access to the project site is currently provided via two driveways off Stewart & Gray Road and three driveways off Hall Road that lead to private internal roads, which connect together around the separate buildings. These internal roads provide parking for employees, parking for trailers and containers, recycling equipment and storage of heavy operation equipment.

2.2 Proposed Project Description

The proposed project consists of the demolition of the existing buildings (totaling approximately 433,000 square feet) and the construction of an industrial concrete tilt building for warehouse/logistics uses totaling 535,685 square feet of building floor area. The proposed project will include 544 automobile parking spaces, 255 trailer and/or container parking spaces and 109 48 foot dock high loading doors. The warehouse building will have a 40-foot clear height.

The new speculative industrial building is intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The facility will include up to 20,000 square feet of office and 25,000 square feet of mezzanine areas. On-site activities will include: General industrial/warehouse with refrigeration and cold storage component for the purposes of receiving, storing, shipping of food and/or beverage products, storage, distribution, and/or consolidation of manufactured goods, and last-mile fulfillment and delivery. All activities will occur within the property boundary and the main industrial building. The office and mezzanine space is intended to be used for office uses ancillary to the warehouse operations. Although the future tenancy for the proposed project is currently unknown, the proposed facility is intended to operate 24 hours a day, seven days a week. The conceptual project site plan is shown in ***Figure 2-2***. The project build-out and occupancy year is anticipated by the year 2024.



N

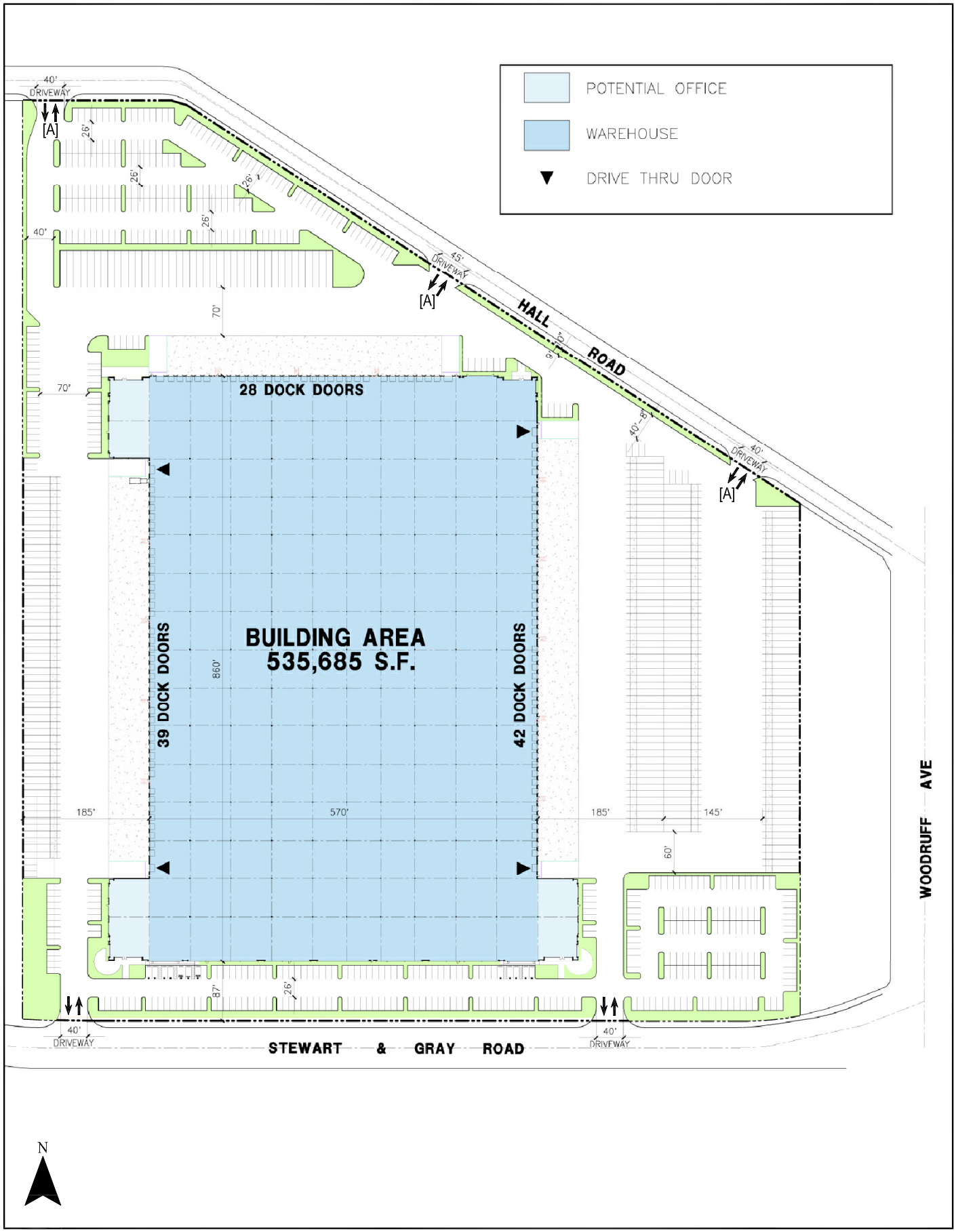
MAP SOURCE: GOOGEL EARTH

Project Site

Existing Driveway

Figure 2-1
Aerial Photograph of Existing Site

o:\job_file\4450\dwg\f2-1.dwg 08/17/2022 14:23:34 rodriquez



o:\job_file\4450\dwg\f2-2.dwg 01/19/2023 15:20:59 turney

SOURCE: HPA ARCHITECTURE, INC.

[A] Left-Turns by Trucks Exiting Project Site at Hall Road Are Not Permitted

Figure 2-2
Site Plan

2.3 Project Site Access

Access to the project site will be accommodated by five driveways, including three driveways along Hall Road and two driveways along Stewart & Gray Road. The proposed driveways are described in further detail below:

- Hall Road Driveways
  Three project driveways are planned to be located along the south side of Hall Road along the project frontage. The east and west driveways are proposed to be approximately 40 feet wide while the middle driveway is proposed to be approximately 45 feet wide. The Hall Road project driveways will provide both passenger vehicle access to the on-site parking areas as well as truck access to the loading areas located north, east, and west of the building. All three driveways will accommodate full access (i.e., left and right-turning inbound and outbound movements) for passenger vehicles. However, outbound left-turn movements for trucks will not be permitted at the Hall Road project driveways.

- Stewart & Gray Road Driveways
  Two project driveways are planned to be located along the north side of Stewart & Gray Road along the project frontage. Both driveways are proposed to be approximately 40 feet wide and will accommodate full access (i.e., left and right-turning inbound and outbound movements). The two project driveways will provide both passenger vehicle access to the on-site parking areas as well as truck access to the loading areas located east and west of the building.

All current site access points will be closed, with sidewalk, curb, and gutter reconstructed to the City of Downey's current standards.

2.4 Project Parking

Based on information provided by the project applicant team, the proposed project is planned to provide a total of 544 automobile parking spaces, 255 trailer and/or container parking spaces, and 109 48-foot dock high loading doors. The dock doors are planned to be located on the north, east, and west sides of the proposed building. The parking spaces will be provided in the surface parking areas surrounding the proposed building. Of the total parking spaces provided on-site, 12 will be designated as accessible spaces.

2.5 City Code Parking Requirements

A calculation of the Code parking requirement was prepared in accordance with the City of Downey Municipal Code nonresidential parking requirements (Section 9712, Nonresidential Parking Requirements). In accordance with the Municipal Code parking regulations, the off-street parking requirements applicable to the proposed project are as follows:

- Warehousing — 1.0 space per 800 square feet of gross floor area, plus office space exceeding 30% of gross floor area must meet the parking requirements for office use

_____Source: City of Downey Municipal Code (Section 9712).

Through strict application of the Municipal Code parking regulations, the following parking requirement would be calculated for the proposed project. As noted previously in the project description, the project will consist of the construction of a total of 535,685 square feet of building floor area:

- Warehousing: 535,685 SF x 1.0 space/800 SF = rounded to 670 spaces

Based on the above calculation, the City Code parking requirement for the project would total 670 spaces. Thus, the proposed project parking supply of 544 automobile parking spaces and 255 trailer and/or container parking spaces would exceed the minimum Code parking requirement.

2.6 Project Trip Generation and Distribution

2.6.1 *Project Trip Generation*

Traffic generation is expressed in vehicle trip ends, defined as one-way vehicular movements, either entering or exiting the generating land use. Trip rates provided in the ITE *Trip Generation Manual*, 11th Edition, published by the Institute of Transportation Engineers (ITE), [Washington, D.C., 2021] were utilized to forecast project traffic generation for the proposed project. As noted previously, the future tenant of the proposed warehouse project is not yet known. The trip rates for High-Cube Fulfillment Center Warehouse are among the highest rates published in the ITE *Trip Generation Manual* for industrial and warehousing land uses, and are the most appropriate rates to utilize for the proposed project in the absence of tenant information which would support a more specific land use category. In addition, based on information provided by the project Applicant, approximately five percent (5%) of the proposed 535,685 square-foot industrial concrete tilt building maybe occupied by a high-cube cold storage warehouse use. Thus, traffic volumes expected to be generated by the proposed project were based upon average rates per 1,000 square feet of gross floor area for High-Cube Fulfillment Center Warehouse land use (ITE Land Use Code 155) and High-Cube Cold Storage Warehouse land use (ITE Land Use Code 157) in general urban/suburban locations.

Trip generation forecasts were also prepared for the existing industrial buildings which currently occupy the project site. Based on information provided by the project applicant team, the existing industrial use was operating at full capacity (i.e., 100% utilization) at the time of the release of the Notice of Preparation (NOP) for the environmental document. ITE Land Use Code 110 (General Light Industrial) trip generation average rates were used to forecast the expected traffic generation for the existing uses, which are planned to be demolished to accommodate the proposed project.

The trip rates published in the ITE *Trip Generation Manual* account for all vehicle trips generated by the land use. In the case of a high-cube fulfillment center warehouse land use, it is expected that a

small proportion of the vehicles accessing the project site would consist of delivery trucks and/or tractor-trailer trucks, in addition to passenger vehicles. Information related to truck trips as percent of total vehicle trips for the proposed high-cube fulfillment center warehouse use was obtained from Appendix C of the ITE *Trip Generation Manual*, 10th Edition Supplement, published by the Institute of Transportation Engineers (ITE), [Washington, D.C., February 2020]. It should be noted that the fulfillment center land use has a significantly higher percentage of passenger vehicles during the AM and PM peak hours and daily conditions due largely to the significantly higher number of employees at a fulfillment center compared to the other types of high-cube warehouse uses.

The ratios of trucks to passenger vehicles and trucks by number of axles identified in the *Truck Trip Generation Study, City of Fontana, County of San Bernardino, State of California*, prepared by Transportation Engineering and Planning, Inc., August 2003 for heavy warehouse land uses were applied to the general vehicle trip forecast for the existing light industrial uses. Lastly, a passenger car equivalent (PCE) factor was applied to the truck trips based on the number of axles to account for the effect of the larger vehicles on intersection traffic operations.

The trip generation rates and forecast of the vehicular trips anticipated to be generated by the proposed project are presented in ***Table 2-1***. As summarized in *Table 2-1*, the proposed project is expected to generate a net decrease of 47 PCE-adjusted vehicle trips (73 fewer inbound trips and 26 more outbound trips) during the weekday AM peak hour. During the weekday PM peak hour, the proposed project is expected to generate a net increase of 189 PCE-adjusted vehicle trips (187 more inbound trips and 2 more outbound trips). Over a 24-hour period, the proposed project is forecast to generate a net increase of 167 PCE-adjusted vehicle trips (approximately 84 more inbound trips and 84 more outbound trips) during a typical weekday.

2.6.2 *Project Trip Distribution and Assignment*

Project traffic volumes both entering and exiting the site have been distributed and assigned to the adjacent street system based on the following considerations:

- The site's proximity to major traffic corridors (i.e., Hall Road, Stewart & Gray Road, Woodruff Avenue, Firestone Boulevard, Imperial Highway, etc.);
- Expected localized traffic flow patterns based on adjacent roadway channelization and presence of traffic signals;
- Existing intersection traffic volumes;
- Ingress/egress scheme planned for the proposed project; and
- Nearby population and employment centers.

The general, directional traffic distribution pattern for the proposed project are presented in ***Figures 2-3*** and 2***-4*** for the passenger cars and trucks, respectively. The forecast weekday AM and PM peak hour net project traffic volumes at the study intersections associated with the proposed project are presented in ***Figures 2-5*** and ***2-6***, respectively. The traffic volume assignments presented in *Figures*

Table 2-1
PROJECT TRIP GENERATION [1]

	LAND USE	SIZE	DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2] IN	AM PEAK HOUR VOLUMES [2] OUT	AM PEAK HOUR VOLUMES [2] TOTAL	PM PEAK HOUR VOLUMES [2] IN	PM PEAK HOUR VOLUMES [2] OUT	PM PEAK HOUR VOLUMES [2] TOTAL
	Proposed Project								
	High-Cube Fulfillment Center Warehouse - Sort [3]	508,900 GSF							
155	Total Vehicles		3277	359	84	443	238	373	611
	- Total Passenger Cars (97% Daily, 98% AM, 98% PM) [4]		3,179	352	82	434	233	366	599
	- Total Trucks (3% Daily, 2% AM, 2% PM) [4]		98	7	2	9	5	7	12
	- 2-Axle (16.7% of All Trucks)		16	1	0	1	1	1	2
	- 3-Axle (20.7% of All Trucks)		20	1	0	1	1	1	2
	- 4+-Axle (62.6% of All Trucks)		61	4	1	5	3	4	7
	- 2-Axle (1.5 PCE)		24	2	0	2	2	2	4
	- 3-Axle (2.0 PCE)		40	2	0	2	2	2	4
	- 4+-Axle (3.0 PCE)		183	12	3	15	9	12	21
	Subtotal Trucks (PCE Adjusted)		247	16	3	19	13	16	29
	High-Cube Cold Storage Warehouse [5]	26,785 GSF	57	2	1	3	2	1	3
	Subtotal (PCE Adjusted)	535,685 GSF	3,483	370	86	456	248	383	631
	Less Existing Uses								
	General Light Industrial [6]	(433,000) GSF							
110	Total Vehicles		(2,109)	(282)	(38)	(320)	(39)	(242)	(281)
	- Total Passenger Cars (61.20% Daily) [7]		(1,291)	(173)	(23)	(196)	(24)	(148)	(172)
	- Total Trucks (38.80% Daily) [7]		(818)	(109)	(15)	(124)	(15)	(94)	(109)
	- 2-Axle (11.10% of All Trucks)		(90)	(12)	(2)	(14)	(2)	(10)	(12)
	- 3-Axle (36.0% of All Trucks)		(294)	(39)	(5)	(44)	(5)	(34)	(39)
	- 4+-Axle (53.0% of All Trucks)		(434)	(58)	(8)	(66)	(8)	(50)	(58)
	- 2-Axle (1.5 PCE)		(135)	(18)	(3)	(21)	(3)	(15)	(18)
	- 3-Axle (2.0 PCE)		(588)	(78)	(10)	(88)	(10)	(68)	(78)
	- 4+-Axle (3.0 PCE)		(1,302)	(174)	(24)	(198)	(24)	(150)	(174)
	Subtotal Trucks (PCE Adjusted)		(2,025)	(270)	(37)	(307)	(37)	(233)	(270)
	EXISTING LIGHT INDUSTRIAL PCE TOTAL		**(3,316)**	**(443)**	**(60)**	**(503)**	**(61)**	**(381)**	**(442)**
	NET INCREASE (PCE TOTAL)		**167**	**(73)**	**26**	**(47)**	**187**	**2**	**189**

[1] Source: ITE "Trip Generation Manual", 11th Edition, 2021.

[2] Trips are one-way traffic movements, entering or leaving.

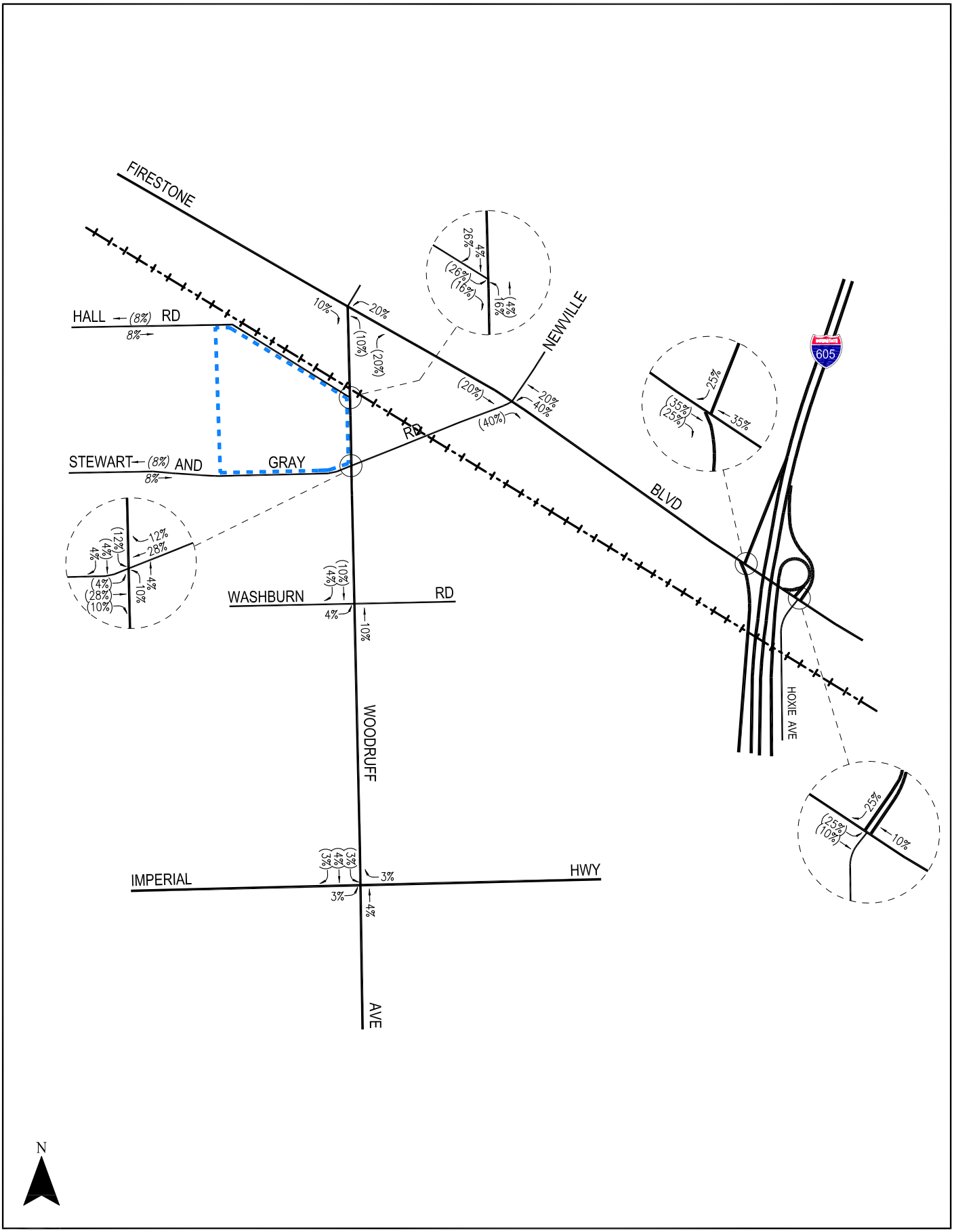
[3] ITE Land Use Code 155 (High-Cube Fulfillment Center Warehouse - Sort) trip generation average rates.
- Daily Trip Rate: 6.44 trips/1,000 SF of floor area; 50% inbound/50% outbound
- AM Peak Hour Trip Rate: 0.87 trips/1,000 SF of floor area; 81% inbound/19% outbound
- PM Peak Hour Trip Rate: 1.20 trips/1,000 SF of floor area; 39% inbound/61% outbound

[4] Vehicle mix based on information contained in ITE "Trip Generation Handbook Supplement", 2020, Appendix C. A PCE factor of 1.5 was applied to all 2-axle trucks, while a PCE factor of 2.0 was applied to all 3-axle trucks and a PCE factor of 3.0 was applied to all 4 or more axle trucks.

[5] ITE Land Use Code 157 (High-Cube Cold Storage Warehouse) trip generation average rates.
- Daily Trip Rate: 2.12 trips/1,000 SF of floor area; 50% inbound/50% outbound
- AM Peak Hour Trip Rate: 0.11 trips/1,000 SF of floor area; 50% inbound/50% outbound
- PM Peak Hour Trip Rate: 0.12 trips/1,000 SF of floor area; 50% inbound/50% outbound

[6] ITE Land Use Code 110 (General Light Industrial) trip generation average rates.
- Daily Trip Rate: 4.87 trips/1,000 SF of floor area; 50% inbound/50% outbound
- AM Peak Hour Trip Rate: 0.74 trips/1,000 SF of floor area; 88% inbound/12% outbound
- PM Peak Hour Trip Rate: 0.65 trips/1,000 SF of floor area; 14% inbound/86% outbound

[7] Based on information contained in the "Truck Trip Generation Study for City of Fontana, County of San Bernardino, State of California" prepared by Transportation Engineering and Planning, Inc., August 2003. A PCE factor of 1.5 was applied to all 2-axle trucks, while a PCE factor of 2.0 was applied to all 3-axle trucks and a PCE factor of 3.0 was applied to all 4 or more axle trucks.



o:\job_file\4450\dwg\f2-3.dwg 11/30/2022 12:50:56 rodriquez

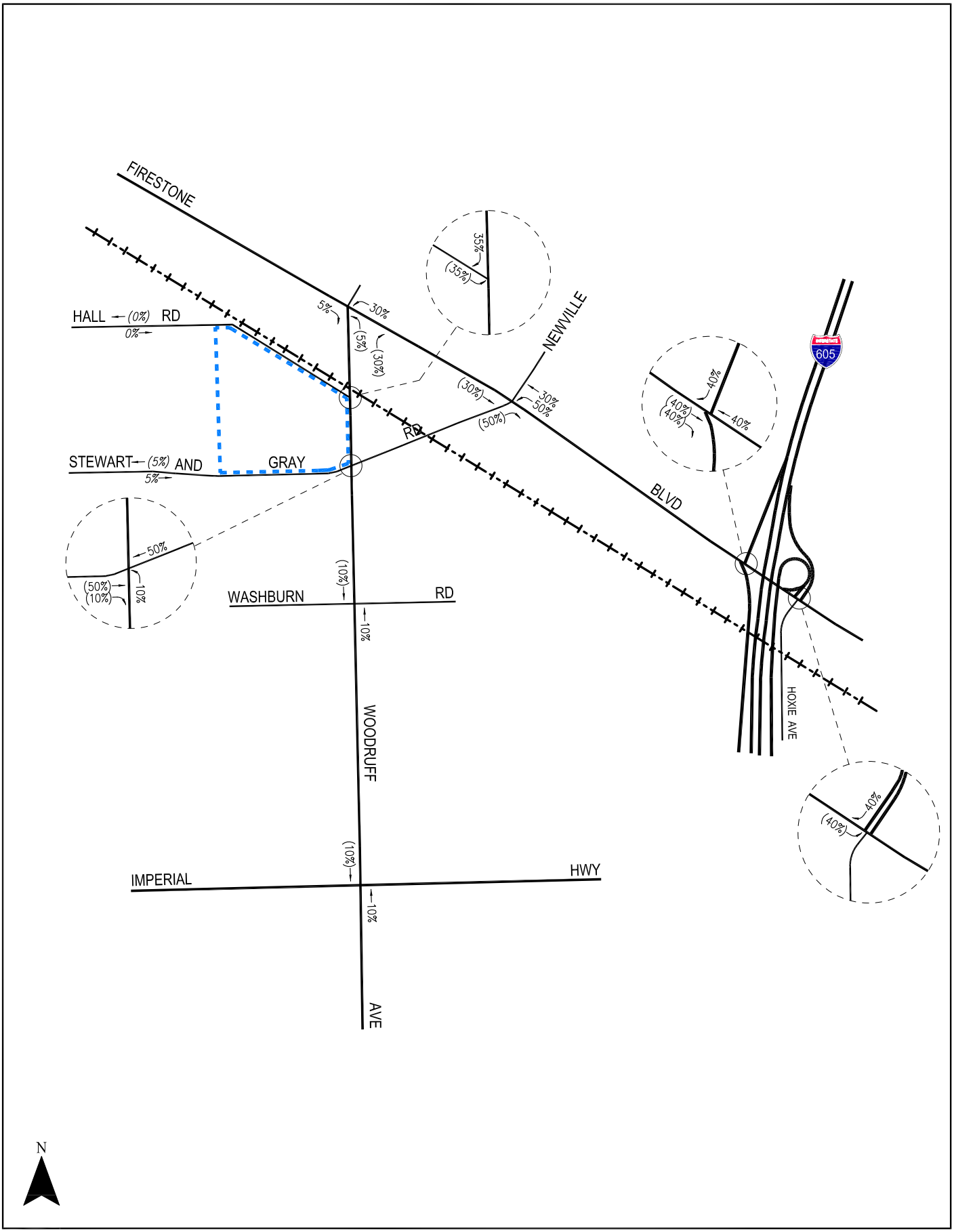
LINSCOTT LAW & GREENSPAN engineers

Project Site

XX = Inbound Percentage

(XX) = Outbound Percentage

Figure 2-3
Project Trip Distribution
Passenger Cars
Prologis Stewart & Gray Road Warehouse Project



o:\job_file\4450\dwg\f2-4.dwg 01/03/2023 13:21:12 rodriquez

LINSCOTT LAW & GREENSPAN engineers

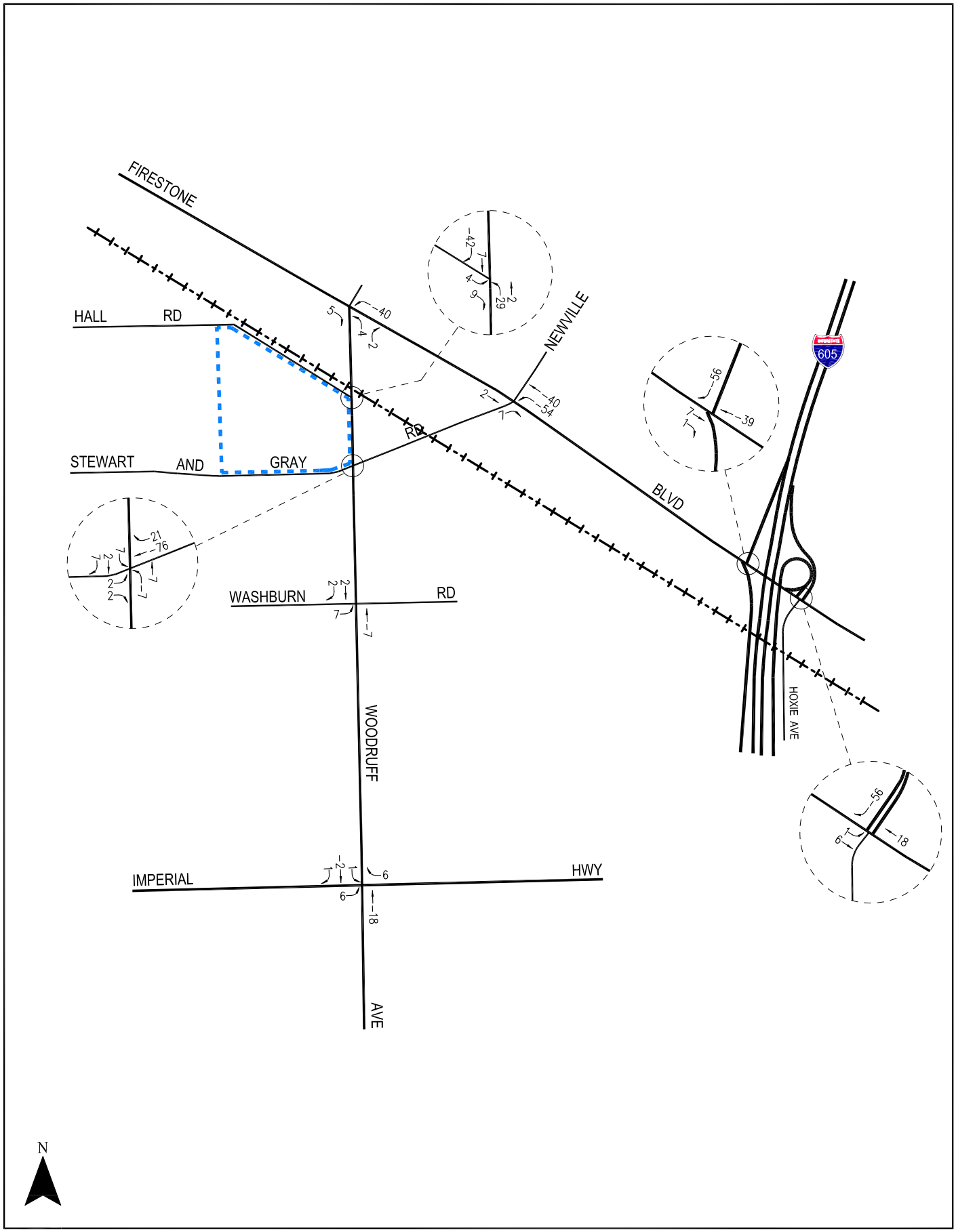
Project Site

XX = Inbound Percentage

(XX) = Outbound Percentage

Figure 2-4
Project Trip Distribution
Trucks

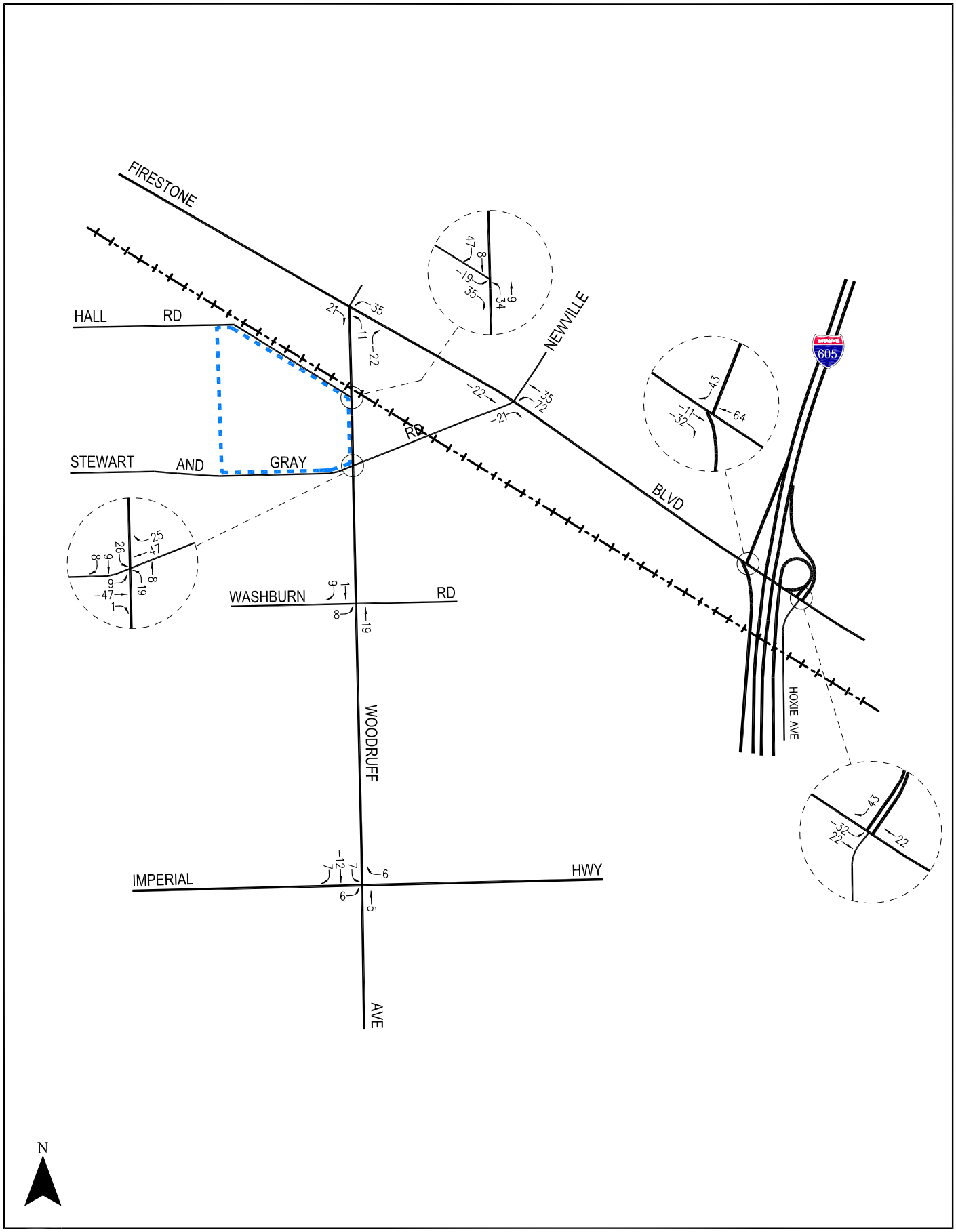
Prologis Stewart & Gray Road Warehouse Project



Project Site

Figure 2-5
Net Project Traffic Volumes
Weekday AM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f2-5.dwg 08/17/2022 14:21:50 rodriquez



Project Site

Figure 2-6
Net Project Traffic Volumes
Weekday PM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f2-6.dwg 08/17/2022 14:24:50 rodriquez

2-5 and *2-6* reflect the traffic distribution characteristics shown in *Figures 2-3* and *2-4* (which show the directional distribution of all passenger cars and trucks), and the project traffic generation forecasts presented in *Table 2-1*.

It should be noted that the proportion of passenger vehicle and truck trips anticipated to be generated by the proposed project differs from the existing site land use. Therefore, net decreases in vehicle trip ends are anticipated to occur for certain turning movements at some of the study intersections; specifically, where PCE-adjusted truck trip ends represent the dominant trip type assigned to the movement, and the higher proportion of existing truck trips is anticipated to be replaced by a lesser amount of truck trip ends generated by the proposed project.

3.0 PROJECT SITE CONTEXT

The project site is located within a well-established multi-modal transportation network maintained by the City of Downey. The following sections provide an overview of the transportation infrastructure in the vicinity of the proposed project, including infrastructure which supports both motorized and non-motorized transportation modes.

3.1 Non-Vehicle Network

Non-vehicular transportation generally encompasses walking, biking, and other active transportation modes. Distinct facilities are often provided for these non-vehicular modes. Most prominently, paved sidewalks are typically provided to facilitate pedestrian travel outside of the roadway. In some cases, bicycle facilities such as painted bike lanes or separated bike paths are provided within the roadway in order to separate bike traffic from vehicular traffic. Roadways which are designed to prioritize non-vehicular transportation modes utilize complimentary non-vehicular infrastructure in order to promote comfortable, safe travel for both pedestrians and bicyclists. A review of the pedestrian and bicycle infrastructure provided in the vicinity of the project site is provided below.

3.1.1 *Pedestrian System*

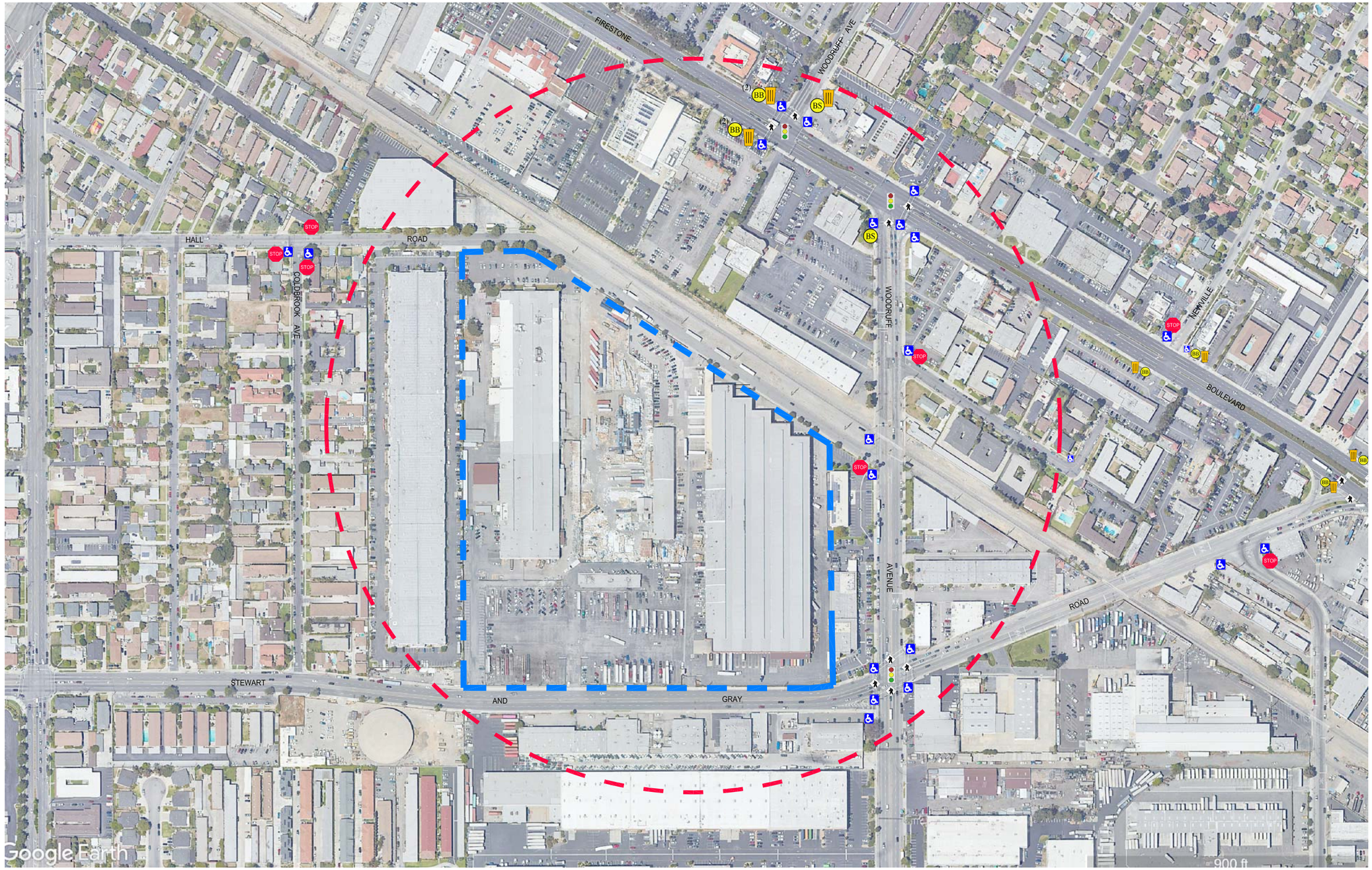
Pedestrian infrastructure consists of facilities such as sidewalks, crosswalks, pedestrian signals, curb access ramps, Americans with Disabilities Act (ADA) compliant tactile warning strips, and curb extensions, among other things. These facilities are provided within the study area at major intersections, including the Woodruff Avenue/Stewart & Gray Road intersection. Sidewalks are provided along most major corridors in the study area, and marked crosswalks, pedestrian signals, and curb ramps are also provided at signalized intersections.

Existing public sidewalks in closest proximity to the project site are provided on the south side of Hall Road west of Woodruff Avenue, on both sides of Woodruff Avenue between Hall Road and Stewart & Gray Road, and on both sides of Stewart & Gray Road west of Woodruff Avenue. Existing pedestrian facilities within an approximate 1,320-foot (0.25 mile) radius of the project site are presented in ***Figure 3-1***. Development of the proposed project would not conflict with the existing pedestrian system.

3.1.2 *Bicycle System*

Bicycle infrastructure consists of both facilities within the roadway as well as public bicycle parking spaces. The Federal and State transportation systems recognize three primary bikeway facilities: Bicycle Paths (Class I), Bicycle Lanes (Class II), and Bicycle Routes (Class III). Bicycle Paths (Class I) are exclusive car free facilities that are typically not located within a roadway area. Bicycle Lanes (Class II) are part of the street design that is dedicated only for bicycles and identified by a striped lane separating vehicle lanes from bicycle lanes. Bicycle Routes (Class III) are preferably located on collector and lower volume arterial streets.

The existing and proposed bicycle infrastructure in the City of Downey is illustrated in ***Figure 3-2***. The Southern California Regional Bikeway Shapefile (RBS) identifies potential future bicycle routes



N

NO SCALE

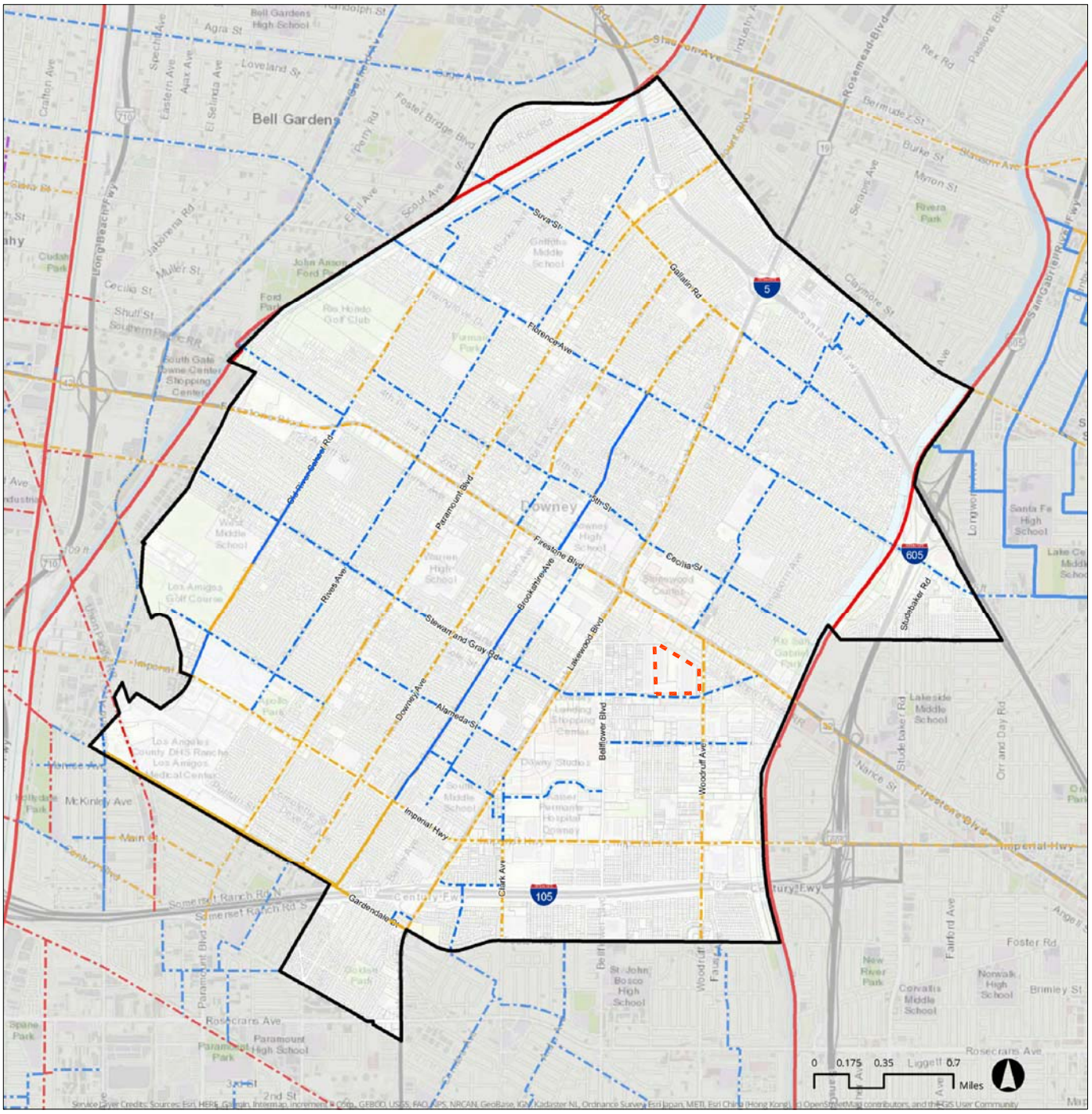
o:\job_file\14450\dwg\13-1.dwg 07/26/2022 16:25:30 rodriquez

LINSCOTT LAW & GREENSPAN engineers

SITE	ADA	CROSSWALK	BUS STOP	BIKE ROUTE
SIGNAL	ADA YELLOW TRUNCATED DOME	CROSSWALK YELLOW	BUS STOP WITH BUS BENCH	MAIL BOX
STOP SIGN	TRASH	BIKE RACK	BUS STOP WITH BUS BENCH & SHELTER	

Figure 3-1
Existing Nearby Pedestrian & Transit Facilities

Prologis Stewart & Gray Road Warehouse Project



Existing Bikeways: Class I, Class II, Class III, Class IV

Proposed/Planned Bikeways: Class I, Class II, Class III, Class IV

MAP SOURCE: SCAG - THE 2024 REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY

o:\job_file\4450\dwg\f3-2.dwg 11/30/2022 12:54:24 rodriquez

LINSCOTT LAW & GREENSPAN engineers

Project Site

Figure 3-2
Existing and Proposed Bikeway

within the City. As shown in *Figure 3-2*, potential bicycle routes in closest proximity to the proposed project site include Woodruff Avenue, Firestone Boulevard, Stewart & Gray Road, Washburn Road, and Imperial Highway. Additionally, the Downey Bike Master Plan Implementation Phase 1 Downtown/Transit project under Capital Improvement Program (CIP) 19-14 would include installation of Class II bicycle facilities on nine roadway segments, bicycle parking facilities, and way-finding signs. Development of the proposed project would not conflict with the existing or proposed bicycle system.

3.2 Transit Network

Public bus transit service is provided within the project study area. Public bus transit service is currently provided by the City of Downey (DowneyLink) and the Los Angeles County Metropolitan Transportation Authority (Metro). A summary of the existing transit service in the vicinity of the project site is presented in ***Table 3-1***. The existing public transit routes in the vicinity of the project site are illustrated in ***Figure 3-3***. As summarized in *Table 3-1*, a total of seven (7) public transit routes provide service within the project study area. The nearest Metro transit stops are provided on both sides of Firestone Boulevard, west of Woodruff Avenue (within an approximate 0.3-mile walk (north) of the project site) and at the northwest and southwest corners of the Stewart & Gray Road/Firestone Boulevard intersection (within an approximate 0.4-mile walk (east) of the project site). Transit service at these stops is provided every 15 minutes during the weekday morning and afternoon peak hours.

3.3 Vehicle Network

3.3.1 *Roadway Classifications*

The City of Downey utilizes the roadway categories recognized by regional, state and federal transportation agencies. There are four categories in the roadway hierarchy, ranging from freeways with the highest capacity to two-lane undivided roadways with the lowest capacity. The roadway categories are summarized as follows:

- *Freeways* are limited-access and high speed travel ways included in the state and federal highway systems. Their purpose is to carry regional through-traffic. Access is provided by interchanges with typical spacing of one mile or greater. No local access is provided to adjacent land uses.

- *Arterial* roadways are major streets that primarily serve through-traffic and provide access to abutting properties as a secondary function. Arterials are generally designed with two to six travel lanes and their major intersections are signalized. This roadway type is divided into two categories: principal and minor arterials. Principal arterials are typically four-or-more lane roadways and serve both local and regional through-traffic. Minor arterials are typically two-to-four lane streets that service local and commuter traffic.

- *Collector* roadways are streets that provide access and traffic circulation within residential and non-residential (e.g., commercial and industrial) areas. Collector roadways connect local

Table 3-1
EXISTING TRANSIT ROUTES [1]

ROUTE	DESTINATIONS	ROADWAY(S) NEAR SITE	NO. OF BUSES/TRAINS DURING PEAK HOUR		
			DIR	AM	PM
DowneyLink - Northeast	Northeast Downey	Woodruff Avenue, Firestone Boulevard	Clockwise C/Clockwise	0 1	0 2
DowneyLink - Southeast	Southeast Downey	Woodruff Avenue, Firestone Boulevard, Imperial Highway	Clockwise C/Clockwise	3 0	2 0
Metro 115	Playa Del Rey to Norwalk via Westchester, Inglewood, Los Angeles, Florence, South Gate and Downey	Woodruff Avenue, Stewart and Gray Road, Hoxie Avenue, Firestone Boulevard	EB WB	4 4	4 4
Metro 120	El Segundo to Whittier via Inglewood, Los Angeles, Willowbrook, Lynwood, Downey, Norwalk and Santa Fe Springs	Woodruff Avenue, Imperial Highway	EB WB	1 1	1 1
Metro 125	El Segundo to Norwalk via Lawndale, Los Angeles, Compton and Downey	Woodruff Avenue, Imperial Highway	EB WB	4 3	3 3
Metro 127	Los Angeles to Downey via Rosewood, Compton and Paramount	Lakewood Boulevard, Firestone Boulevard	EB-NB WB-SB	1 2	1 2
Metro 266	Pasadena to Lakewood via Temple City, South El Monte, Pico Rivera, Downey and Bellflower	Lakewood Boulevard, Firestone Boulevard	NB SB	3 3	3 3
TOTAL				**30**	**29**

[1] Sources: City of Downey (DowneyLink) and Los Angeles County Metropolitan Transportation Authority (Metro) websites, 2022.

o:\job_file\4450\dwg\f3-3.dwg 05/03/2022 15:45:56 rodriquez

LINSCOTT LAW & GREENSPAN engineers

★ Project Site

Figure 3-3
Existing Transit Routes

streets to arterials and are typically designed with two through travel lanes (i.e., one through travel lane in each direction) that may accommodate on-street parking. They may also provide access to abutting properties.

- *Local* roadways distribute traffic within a neighborhood, or similar adjacent neighborhoods, and are not intended for use as a through-street or a link between higher capacity facilities such as collector or arterial roadways. Local streets are fronted by residential uses and do not typically serve commercial uses. Generally, travel lanes are not striped, and parking may be accommodated on one or both sides of the roadway.

3.3.2 *Regional Highway System*

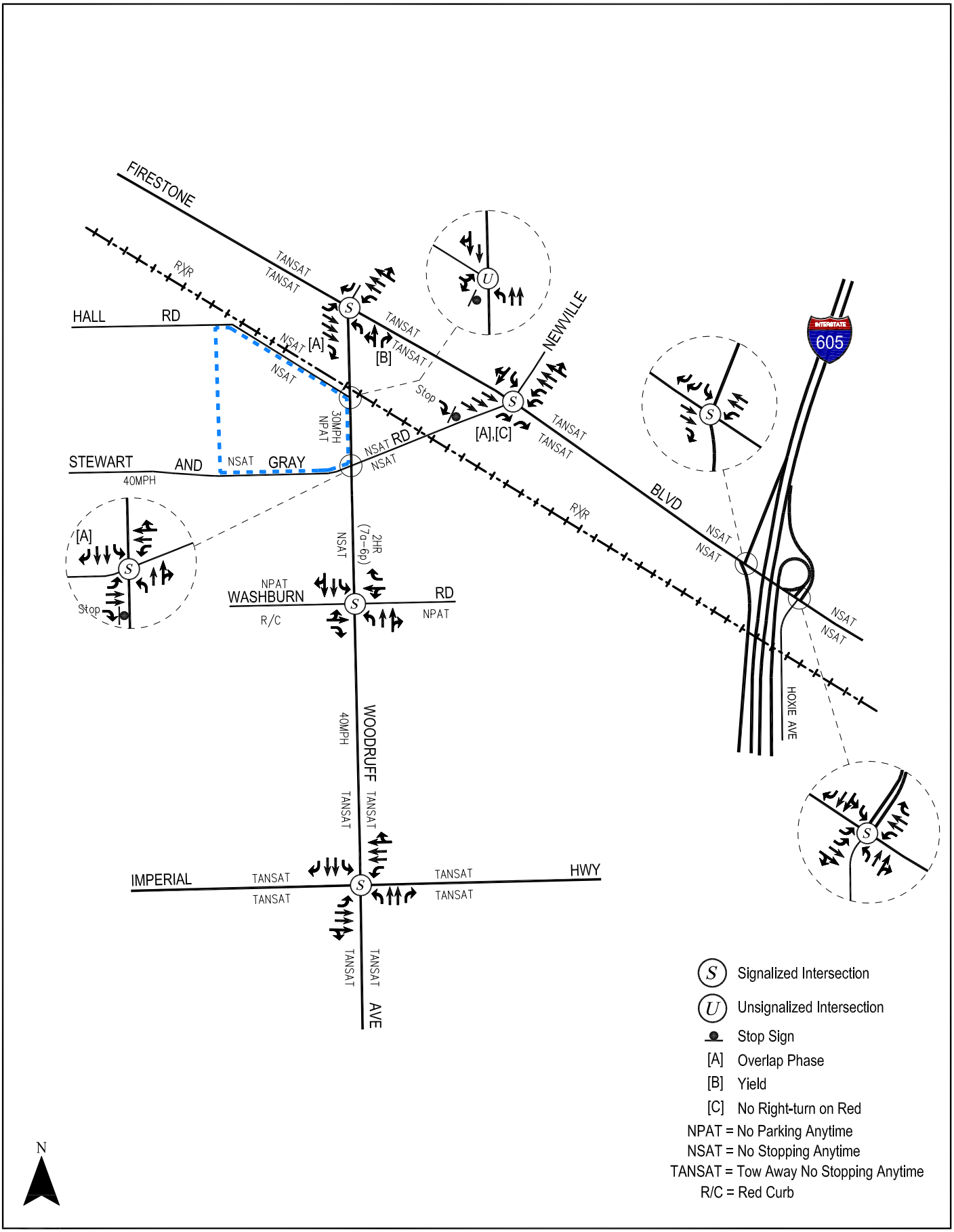
Primary regional access is provided by the San Gabriel River (I-605) Freeway and the Glenn Anderson (I-105) Freeway as shown in *Figure 1-1*. The *I-605 Freeway* is a major north-south freeway connecting the I-210 Freeway to the north and I-405 Freeway to the south. In the project vicinity, five to six mixed-flow freeway lanes and one HOV lane are provided in each direction on the I-605 Freeway with auxiliary merge/weave lanes provided between some interchanges. Northbound and southbound on/off ramps are provided to and from the I-605 Freeway at Firestone Boulevard in the project area. The *I-105 Freeway* an east-west oriented freeway connecting the LAX/El Segundo area to the west with the I-605 Freeway to the east. In the project vicinity, three to four mixed-flow freeway lanes and one HOV lane are provided in each direction on the I-105 Freeway. Eastbound and westbound on/off ramps are provided to and from the I-105 Freeway at Bellflower Boulevard in the project area.

3.3.3 *Roadway Descriptions*

The current lane configurations and traffic control measures at each study intersection is presented in ***Figure 3-4***. Descriptions of the roadways which comprise the study area are provided in ***Table 3-2***, including the roadway classification, number of lanes, median types, and speed limits designated by the City of Downey.

3.4 Traffic Count Data

Manual counts of vehicular, pedestrian, and bicycle volumes were conducted at each of the eight (8) study intersections during the weekday morning (AM) and afternoon (PM) commuter periods to determine the peak hour traffic volumes. The manual counts utilized in this transportation assessment were conducted in 2016, 2020, and 2021 by various independent traffic count subconsultants at the study intersections from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM to determine the AM and PM peak commute hours, respectively. Specifically, traffic counts were conducted in 2016 at three (3) study intersections and 2020 at two (2) study intersections as part of traffic impact analyses prepared for other projects in the study area. Historic traffic counts for the remaining three (3) study intersections were not identified through a search of LLG records and data on file with the City. Therefore, manual counts were conducted in October 2021 for the remaining three (3) study intersections.



o:\job_file\4450\dwg\f3-4.dwg 07/26/2022 16:09:00 rodriquez

LINSCOTT LAW & GREENSPAN engineers

Project Site

Figure 3-4
Existing Lane Configurations

Table 3-2
EXISTING ROADWAY DESCRIPTIONS

ROADWAY	CLASSIFICATION [1]	TRAVEL LANES			MEDIAN TYPES [4]	SPEED LIMIT
		DIRECTION [2]	NO. LANES [3]			
Woodruff Avenue	Primary Arterial	NB-SB	4	[5], [6]	2WLT	35 to 40
Newville Avenue	Local Street	NB-SB	2	[5]	N/A	25
Hoxie Avenue	Collector	NB-SB	4	[6]	N/A	35
Firestone Boulevard	Major Arterial	EB-WB	6 to 4	[5], [6]	RMI	40
Hall Road	Collector	EB-WB	2	[5]	N/A	25
Stewart & Gray Road	Secondary Arterial	EB-WB	4	[5]	2WLT	40
Washburn Road	Collector	EB-WB	2	[5]	N/A	30
Imperial Highway	Major Arterial	EB-WB	6	[5], [6]	RMI	40

Notes:
[1] Roadway classifications obtained from the *City of Downey General Plan Vision 2025, Circulation Plan* , adopted January 25, 2005, and *City of Norwalk General Plan Circulation Element* , adopted Febuary 29, 1996.
[2] Direction of roadways in the project area: NB-SB = northbound and southbound; and EB-WB = eastbound and westbound.
[3] Number of lanes in both directions on the roadway.
[4] Median type of the road: RMI = Raised Median Island; 2WLT = 2-Way Left-Turn Lane; and N/A = Not Applicable.
[5] City of Downey
[6] City of Norwalk

Based on a review of the collected count data, it was determined that the 2020 traffic count data conducted for Intersection No. 3 (Woodruff Avenue & Stewart & Gray Road) and Intersection No. 4 (Woodruff Avenue & Washburn Road) were substantially lower due to the Covid-19 pandemic conditions. In addition, the 2016 traffic count data conducted for Intersection No. 6 (Newville Avenue-Stewart & Gray Road & Firestone Boulevard) were noted to be lower. As a result, the traffic count data collected at these three intersections were adjusted accordingly to reflect typical conditions of study area intersections and ensure peak hour traffic flow consistency on a corridor-level basis.

Furthermore, based on review of the general traffic growth factors provided in the Los Angeles County 2010 Congestion Management Program[2] (CMP) for RSA 22 (Downey) where the study intersections are located, an annual growth rate of one percent (1.0%) per year has been conservatively applied to bring all count data to the year 2022 existing condition.

The existing weekday AM and PM peak hour intersection traffic volumes by approach are summarized in ***Table 3-3***. The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are shown in ***Figures 3-5*** and ***3-6***, respectively. For each study intersection, the highest one-hour total traffic volumes (i.e., four consecutive 15-minute time intervals) traversing through the intersection during the 7:00 to 9:00 AM and 4:00 to 6:00 PM time periods were selected so as to determine the respective weekday AM and PM peak hour traffic volumes for each study intersection. For purposes of the transportation analysis, this common traffic engineering practice ensures that a more conservative (i.e., worst case) assessment of existing operating conditions be attained for each study intersection. Therefore, the traffic volumes shown in *Figures 3-5* and *3-6* for the study intersections do not necessarily reflect the same exact one-hour time period during the morning and/or afternoon peak commuter conditions (i.e., one intersection's peak hour may have occurred between 7:30 and 8:30 AM, while another intersection's peak hour may have occurred between 7:45 and 8:45 AM). Summary data worksheets of the manual traffic counts of the study intersections, as well as the available pedestrian and bicycle counts, are contained in ***Appendix A***.

In addition, 24-hour average daily traffic (ADT) counts were collected for the roadway segments. The daily traffic counts were collected by an independent traffic count subconsultant on two consecutive weekdays in October 2021. Consistent with the intersection count data, an annual growth rate of one percent (1.0%) has been conservatively applied to bring the ADT count data to the year 2022 existing condition. Summary data worksheets of the daily traffic counts for the roadway segments are also contained in *Appendix A*.

3.5 Cumulative Development Projects

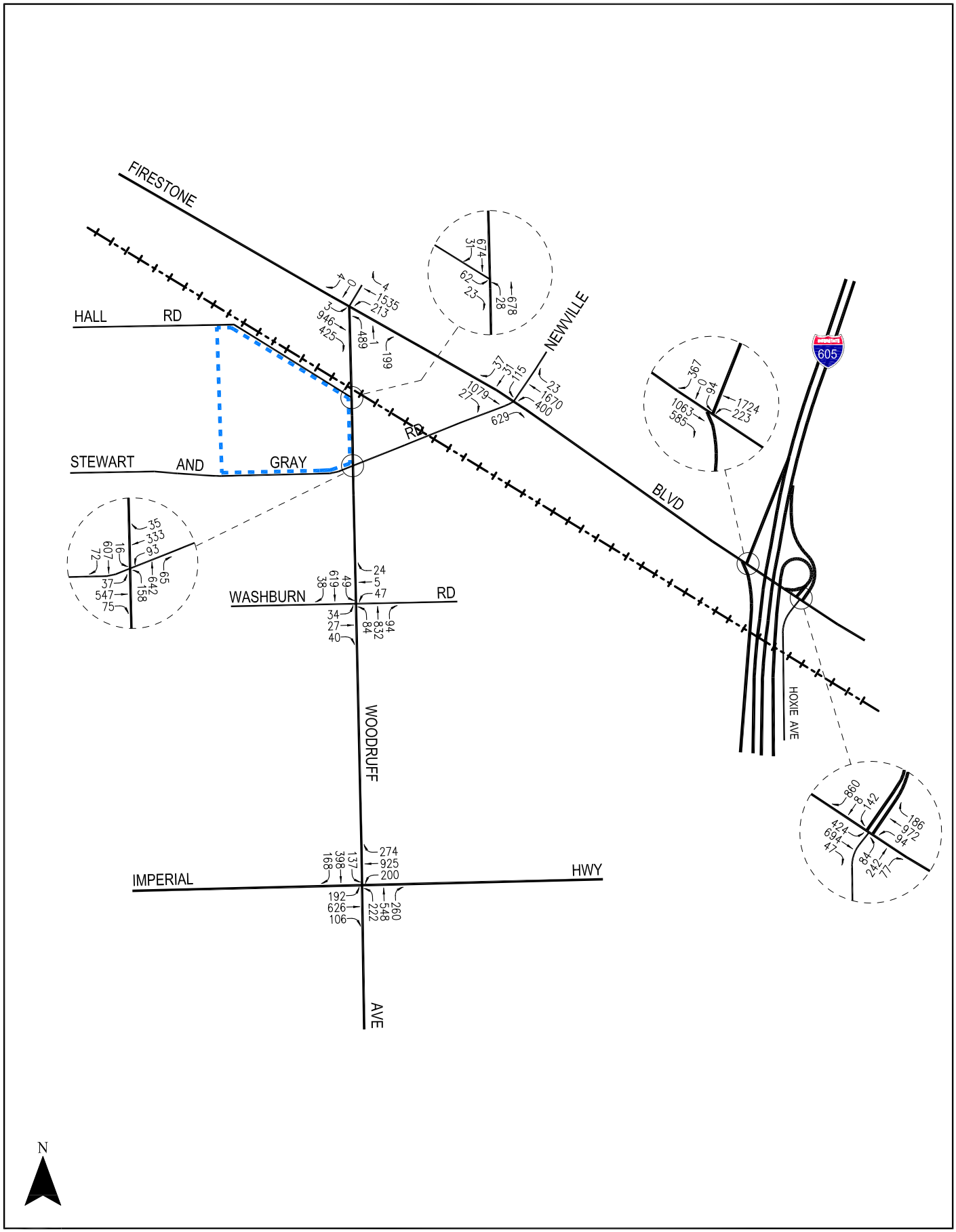
The forecast of future pre-project conditions was prepared in accordance to procedures outlined in Section 15130 of the CEQA Guidelines. Specifically, the CEQA Guidelines provide two options for developing the future traffic volume forecast:

[2] Los Angeles County Metropolitan Transportation Authority (Metro) 2010 Congestion Management Program.

Table 3-3
EXISTING TRAFFIC VOLUMES [1]
WEEKDAY AM AND PM PEAK HOURS

NO.	INTERSECTION	DATE	DIR	AM PEAK HOUR		PM PEAK HOUR	
				BEGAN	VOLUME	BEGAN	VOLUME
1	Woodruff Avenue/ Firestone Boulevard [2]	10/27/2021	NB SB EB WB	7:30 AM	689 4 1,374 1,752	4:30 PM	793 45 1,596 1,360
2	Woodruff Avenue/ Hall Road [2]	10/27/2021	NB SB EB WB	8:00 AM	706 705 85 0	5:00 PM	789 533 112 0
3	Woodruff Avenue/ Stewart and Gray	07/09/2020	NB SB EB WB	7:45 AM	865 695 659 461	4:30 PM	758 636 888 467
4	Woodruff Avenue/ Washburn Road	07/09/2020	NB SB EB WB	7:45 AM	1,010 706 101 76	4:15 PM	671 669 167 169
5	Woodruff Avenue/ Imperial Highway [2]	10/27/2021	NB SB EB WB	8:00 AM	1,030 703 924 1,399	5:00 PM	895 913 1,538 1,001
6	Newville Avenue- Stewart and Gray/ Firestone Boulevard	02/23/2016	NB SB EB WB	7:00 AM	629 183 1,106 2,093	4:45 PM	723 154 1,494 1,726
7	I-605 SB Ramps/ Firestone Boulevard	02/23/2016	NB SB EB WB	7:15 AM	0 461 1,648 1,947	5:00 PM	0 445 1,924 1,572
8	I-605 NB Ramps-Hoxie Avenue/ Firestone Boulevard	02/23/2016	NB SB EB WB	7:15 AM	403 1,010 1,165 1,252	5:00 PM	666 852 1,452 1,094

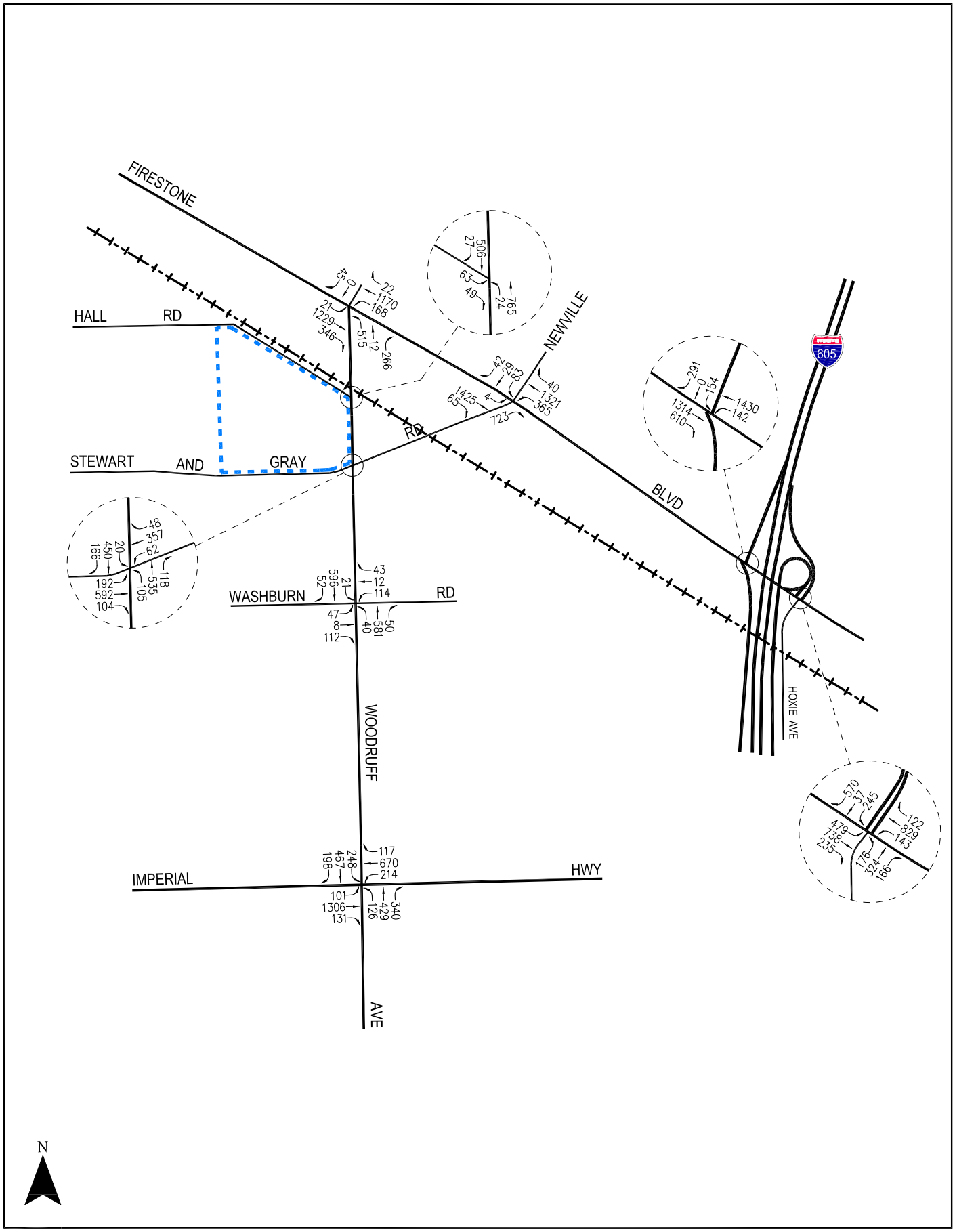
[1] Counts adjusted 1% per year to 2022 conditions.
[2] Counts conducted by Counts Unlimited



Project Site

Figure 3-5
Existing Traffic Volumes
Weekday AM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f3-5.dwg 12/21/2022 17:13:23 rodriquez



Project Site

Figure 3-6
Existing Traffic Volumes
Weekday PM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f3-6.dwg 01/04/2023 16:35:05 rodriquez

> "(A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the [lead] agency, or
>
> (B) A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect. Such plans may include: a general plan, regional transportation plan, or plans for the reduction of greenhouse gas emissions. A summary of projections may also be contained in an adopted or certified prior environmental document for such a plan. Such projections may be supplemented with additional information such as a regional modeling program. Any such document shall be referenced and made available to the public at a location specified by the lead agency."

Although the CEQA Guidelines do not strictly apply to the local transportation assessment required by the City of Downey, this traffic analysis provides a highly conservative estimate of future pre-project traffic volumes as it incorporates both the "A" and "B" options for purposes of developing the forecast.

3.5.1 *Related Projects*

A forecast of on-street traffic conditions prior to occupancy of the proposed project was prepared by incorporating the potential trips associated with other known development projects (related projects) in the area (i.e., within an approximate one-mile radius from the project site). With this information, the potential impact of the proposed project can be evaluated within the context of the cumulative impacts of all ongoing development. The related projects research was based on information on file with the City of Downey Community Development Department and the City of Norwalk Economic Development Program. The list of related projects in the project site area is presented in ***Table 3-4***. The location of the related projects is shown in ***Figure 3-7***.

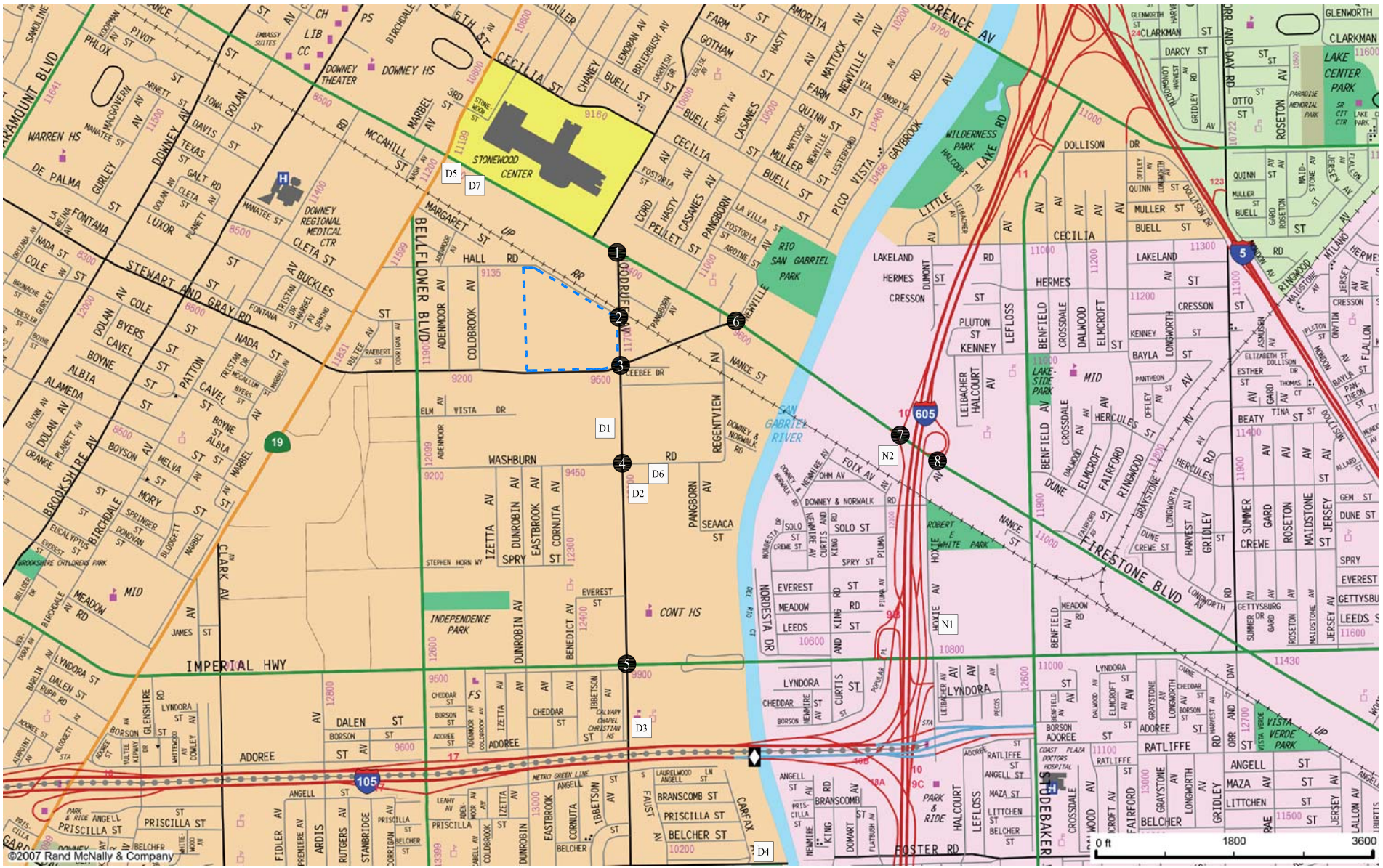
Traffic volumes expected to be generated by the related projects were calculated using rates provided in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*[3]. The related projects' respective traffic generation for the weekday AM and PM peak hours, as well as on a daily basis for a typical weekday, is summarized in *Table 3-4*. The related projects traffic volumes were distributed and assigned to the street system based on the projects' locations in relation to the study intersections, their proximity to major traffic corridors, proposed land uses, nearby population and employment centers, etc. The anticipated distribution of the related projects traffic volumes to the study intersections during the weekday AM and PM peak hours are displayed in ***Figures 3-8*** and ***3-9***, respectively.

[3] Institute of Transportation Engineers *Trip Generation Manual*, 11th Edition, Washington, D.C., 2021.

Table 3-4
RELATED PROJECTS LIST AND TRIP GENERATION [1]

MAP NO.	PROJECT STATUS	PROJECT NAME/NUMBER ADDRESS/LOCATION	LAND USE DATA		PROJECT DATA SOURCE	DAILY TRIP ENDS [2] VOLUMES	AM PEAK HOUR VOLUMES [2]			PM PEAK HOUR VOLUMES [2]		
			LAND-USE	SIZE			IN	OUT	TOTAL	IN	OUT	TOTAL
City of Downey												
D1	Approved	12021 Woodruff Avenue	Truck Terminal	44,162 GSF	[3]	232	(5)	58	53	41	14	55
D2	Under Construction	12120 Woodruff Avenue	Warehouse	20,000 GSF	[4]	34	2	1	3	1	3	4
D3	Proposed	12850 Woodruff Avenue	Senior Housing	62 DU	[5]	201	4	8	12	9	7	16
D4	Proposed	10361 Foster Road	Multi-family Housing	47 DU	[6]	317	5	14	19	15	9	24
D5	Under Construction	Starbucks 9002 Firestone Boulevard	Coffee Shop	1,698 GSF	[7]	(81)	1	8	9	(9)	(9)	(18)
D6	Proposed	9644 Washburn Road	Manufacturing	14,000 GSF	[8]	67	8	2	10	3	7	10
D7	Under Construction	9066 Firestone Boulevard	Hotel	140 Occ. Rooms	[9]	1,712	49	38	87	50	52	102
City of Norwalk												
N1	Approved	Costco Car Wash 12500 Hoxie Avenue	Car Wash	3,675 GSF	[10]	520	N/A	N/A	0	26	26	52
N2	Proposed	Rosecrans Carwash 10710 Firestone Boulevard	Car Wash	3,819 GSF	[10]	540	N/A	N/A	0	27	27	54
TOTAL						3,542	64	129	193	163	136	299

[1] Source: City of Downey, Community Development Deartment, and the City of Norwalk, Economic Development Program, except as noted below. ITE "Trip Generation Manual", 11th Edition, 2021.
[2] Trips are one-way traffic movements, entering or leaving.
[3] Source: Transportation Impact Analysis for the 12021 Woodruff Avenue Industrial Building Project, prepared by Dudek, October 2020.
[4] ITE Land Use Code 150 (Warehouse) trip generation average rates.
[5] ITE Land Use Code 252 (Senior Adult Housing - Multifamily) trip generation average rates.
[6] ITE Land Use Code 220 (Multifamily Housing (Low-Rise) Not Close to Rail Transit) trip generation average rates.
[7] Source: Starbucks 9002 Firestone Boulevard Project Transportation Impact Analysis, prepared by Ganddini Group, Inc.
[8] ITE Land Use Code 140 (Manufacturing) trip generation average rates.
[9] ITE Land Use Code 310 (Hotel) trip generation average rates.
[10] ITE Land Use Code 948 (Automated Car Wash) trip generation average rates. No daily trip rates, assumed 10% of PM Peak Hour totals.



N

MAP SOURCE: RAND MCNALLY & COMPANY

o:\job_file\4450\dwg\f3-7.dwg 05/04/2022 16:25:56 rodriquez

LINSCOTT LAW & GREENSPAN engineers

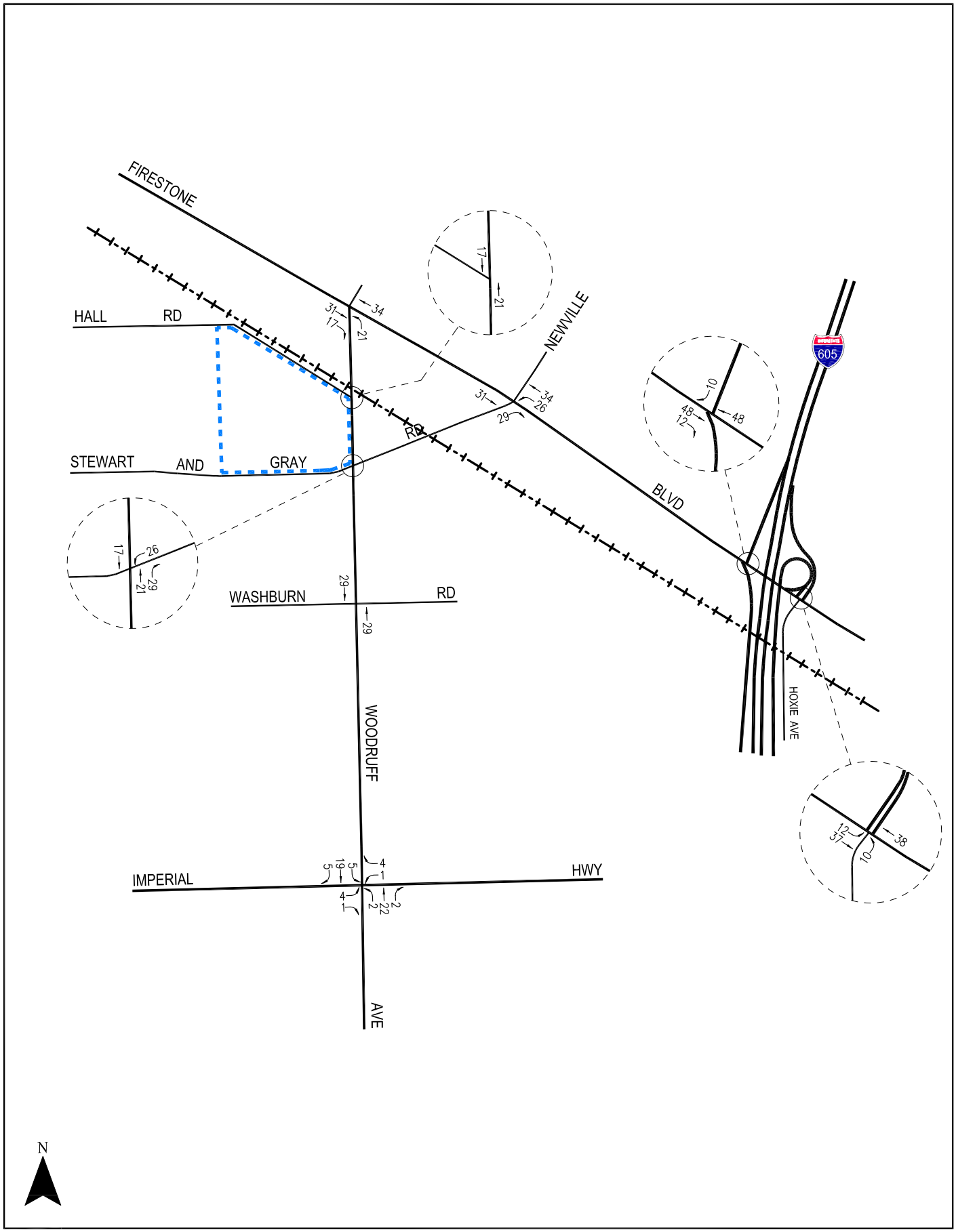
Project Site

Study Locations

D# City of Downey Related Project

N# City of Norwalk Related Project

Figure 3-7
Location of Related Projects

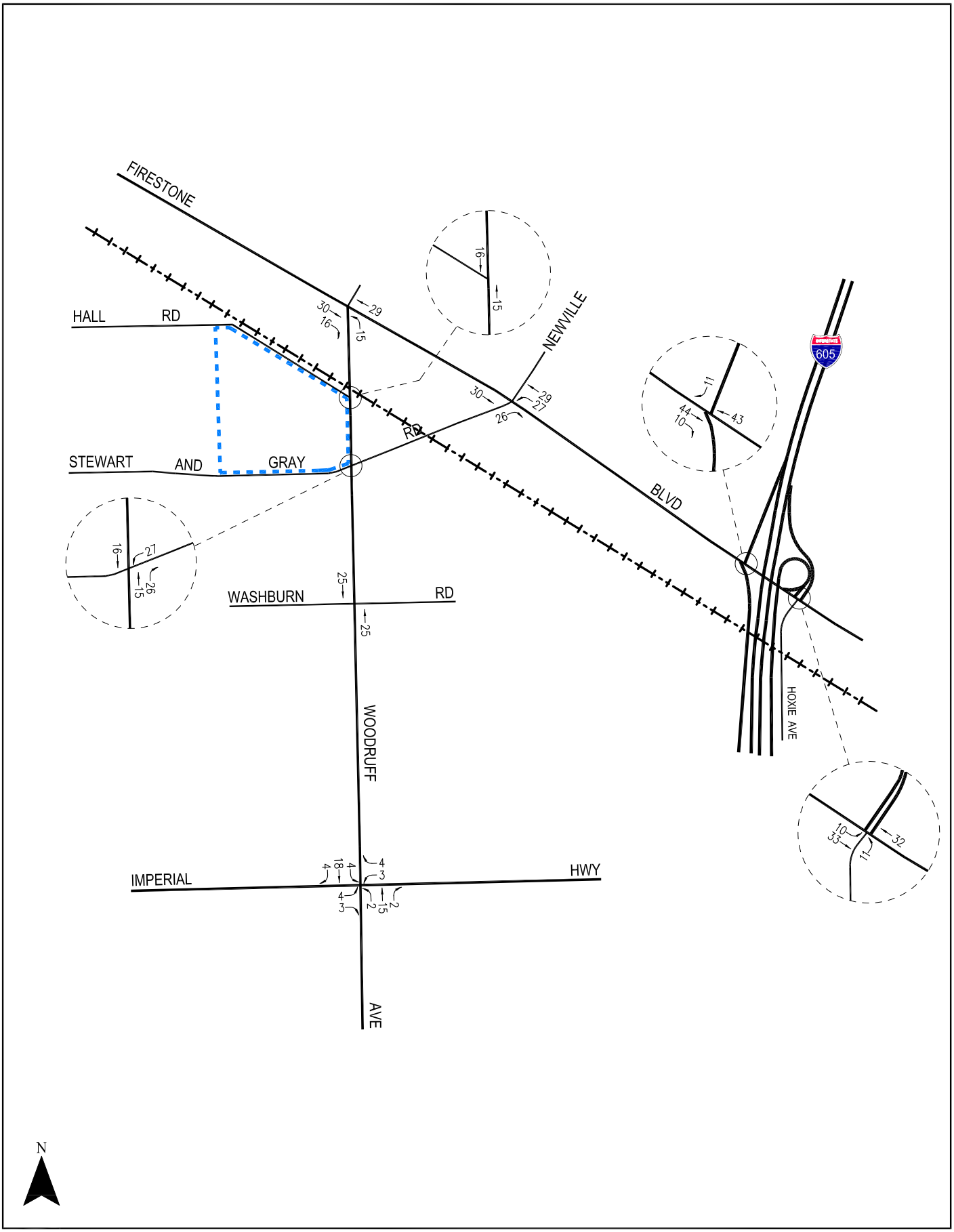


Project Site

LINSCOTT LAW & GREENSPAN engineers

Figure 3-8
Related Projects Traffic Volumes
Weekday AM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f3-8.dwg 08/17/2022 15:00:59 rodriquez



Project Site

Figure 3-9
Related Projects Traffic Volumes
Weekday PM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f3-9.dwg 08/17/2022 15:06:51 rodriquez

3.5.2 *Ambient Traffic Growth Factor*

Horizon year background traffic growth estimates have been calculated using an ambient traffic growth factor. The ambient traffic growth factor is intended to include unknown related projects in the study area as well as account for typical growth in traffic volumes due to the development of projects outside the study area. An annual growth rate of one percent (1.0%) per year was selected for this analysis.

Therefore, application of this one percent (1.0%) annual ambient growth factor in addition to the forecast traffic generated by the related projects allows for a very conservative forecast of future traffic volumes in the project study area as incorporation of both (i.e., an ambient traffic growth rate and a detailed list of cumulative development projects) is expected to overstate potential future traffic volumes.

4.0 CEQA TRANSPORTATION ASSESSMENT

The State of California Governor's Office of Planning and Research (OPR) issued proposed updates to the CEQA guidelines in November 2017 that amends the Appendix G question for transportation impacts to delete reference to vehicle delay and level of service and instead refer to Section 15064.3, subdivision (b)(1) of the CEQA Guidelines asking if the project will result in a substantial increase in vehicle miles traveled (VMT). The California Natural Resources Agency certified and adopted the revisions to the CEQA Guidelines in December of 2018, and as of July 1, 2020 the provisions of the new section are in effect statewide. Concurrently, OPR developed the *Technical Advisory on Evaluating Transportation Impacts in CEQA* (December 2018), which provides non-binding recommendations on the implementation of VMT methodology which has significantly informed the way VMT analyses are conducted in the State. The City of Downey has not formally adopted VMT methodology, screening criteria, or thresholds for VMT analysis of land use development projects within its jurisdiction. Instead, the City follows the methodology set forth in the Los Angeles County Public Works Transportation Impact Analysis Guidelines[4] ("County Guidelines").

4.1 Vehicle Miles Traveled (VMT) Project Screening

Traditionally, public agencies have set certain thresholds to determine whether a project requires detailed transportation analysis or if it could be assumed to have less than significant environmental impacts without additional study. Consistent with the recommendations provided by OPR in the *Technical Advisory*, the County Guidelines recognize four screening criteria which may be applied to screen proposed projects out of detailed VMT analysis. Proposed projects are not required to satisfy all of the screening criteria in order to screen out of further VMT analysis; satisfaction of one criterion is sufficient for screening purposes. The following sections provide a detailed explanation of each screening criteria as it relates to the proposed project.

4.1.1 *Non-Retail Project Trip Generation Screening Criteria*

Section 3.1.2.1 of the County Guidelines states that: "If the answer is no to the question below, further analysis is not required, and a less than significant determination can be made.

- Does the development project generate a net increase of 110 or more daily vehicle trips?"

The County Guidelines further indicate that a proposed project's daily vehicle trip generation should be estimated using the most recent edition of the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, or through use of empirical trip generation data if the project's land use is not listed in the *Manual*.

As presented in *Table 2-1*, the proposed project is forecast to generate a net increase of 1,168 daily non-PCE-adjusted vehicle trips (i.e., 3,277 project trips – 2,109 existing trips = 1,168 net new trips). Application of the PCE-adjustment factors also results in a net increase of 167 daily PCE-adjusted trips. The answer to the screening question is "Yes"; therefore, the non-retail project trip generation screening criterion is not satisfied.

4.1.2 *Retail Project Screening Criteria*

New local serving retail development typically redistributes shopping trips rather than creating new ones. By adding retail opportunities into the urban fabric and improving retail destination proximity, local serving retail developments tend to shorten trips and reduce VMT, and may be presumed to cause less than significant impacts. Consistent with OPR's guidance, the County assumes that retail projects of any type which are less than 50,000 square feet may be considered local serving retail.

Therefore, Section 3.1.2.2 of the County Guidelines states: "A project that contains a local serving retail use is assumed to have less than significant VMT impacts for the retail portion of the project. If the answer to the following question is no, a less than significant determination can be made for the portion of the project that contains retail uses.

- Does the project contain retail uses that exceed 50,000 square feet of gross floor area?"

The proposed project does not include any retail components; therefore, this screening criterion does not apply.

4.1.3 *Proximity to Transit Screening Criteria*

CEQA Guidelines Section 15064.3(b)(1) states in part: "Generally, projects within one-half mile of either an existing major transit stop or a stop along an existing high-quality transit corridor should be presumed to cause a less than significant transportation impact." In keeping with the statutory presumption of less than significant impacts due to nearby high-quality transit, the County Guidelines include a screening criterion based on proximity to transit. Consistent with the recommendations provided by OPR, the County also notes certain project-specific or location-specific information which might indicate that the presumption is not appropriate.

Thus, Section 3.1.2.3 of the County Guidelines states that: "If the project is located near a major transit stop or high-quality transit corridor, the following question should be considered:

- Is the project located within a one-half mile radius of a major transit stop[5] or an existing stop along a high-quality transit corridor[6]?

If the answer to the above question is yes, then the following subsequent questions should be considered:

- Does the project have a Floor Area Ratio (FAR) less than 0.75?
- Does the project provide more parking than required by the County Code?

---

[4] Los Angeles County Public Works, "Transportation Impact Analysis Guidelines", July 23, 2020.

[5] Public Resources Code Section 21064.3: ""Major transit stop" means a site containing any of the following: (a) An existing rail or bus rapid transit station. (b) A ferry terminal served by either a bus or rail transit service. (c) The intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.

[6] Public Resources Code Section 21155(b): "For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours."

- Is the project inconsistent with the SCAG RTP/SCS?
- Does the project replace residential units set aside for lower income households with a smaller number of market-rate residential units?

If the answer to all four subsequent questions is no, further analysis is not required, and a less than significant determination can be made."

The project site is located within a high quality transit corridor. As described in *Section 3.2*, transit service along Firestone Boulevard is provided every 15 minutes during the weekday morning and afternoon peak periods. The project site is located within a 0.5-mile walking distance from existing transit stops at the Woodruff Avenue/Firestone Boulevard intersection and the Stewart & Gray Road/Firestone Boulevard intersection. Therefore, the answer to the first question is "Yes", and the subsequent questions should be considered:

- Does the project have a Floor Area Ratio (FAR) less than 0.75?

  Yes. The project will have an FAR of 0.42 (535,685 total building SF/1,270,210 total site SF = 0.42), which is less than 0.75.

- Does the project provide more parking than required by the County Code?

  Yes. The proposed project's parking supply was compared to the City of Downey's Municipal Code since the County's Code is not applicable to the project site. As presented in *Section 2.5*, the Downey Municipal Code parking requirement for the proposed project is 670 parking spaces. The project proposes to provide a total of 799 parking spaces (i.e., 544 automobile parking spaces and 255 trailer/container parking spaces), therefore the project provides more parking spaces than required by the City's Municipal Code.

- Is the project inconsistent with the SCAG RTP/SCS?

  No. The project site is currently zoned for Manufacturing (M-2). Downey Municipal Code Section 9318.04 lists warehousing as a permitted land use in M-2 zones. Since the project is consistent with the City's adopted zoning, and is not expected to result in substantial changes to the existing transportation network/infrastructure, it is assumed to be consistent with the land use and transportation network assumptions incorporated in the Southern California Council of Government's (SCAG) Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS).

- Does the project replace residential units set aside for lower income households with a smaller number of market-rate residential units?

  No. The existing project site is currently occupied by five industrial buildings, which will be removed to accommodate the proposed project. The project will not result in the loss of affordable housing units.

Two of the answers to the above subsequent questions are "Yes". As stated above, the answer to all four questions must be "No" in order to satisfy the screening criterion. Therefore, the proximity to transit screening criterion is not fully satisfied.

4.1.4 *Residential Project Screening Criteria*

In the *Technical Advisory*, OPR refers to research indicating that low-income housing in infill locations generally improves the jobs-housing match, shortening commutes and reducing VMT. OPR asserts that evidence supports presuming less than significant transportation impacts for 100% affordable residential developments, and that a project consisting of a high percentage of affordable housing may be a basis for a lead agency to find a less than significant impact on VMT, thereby screening out of detailed VMT analysis.

Consistent with the recommendations provided by OPR, Section 3.1.2.4 of the County Guidelines indicate that certain projects which further the State's affordable housing goals are presumed to have less than significant impacts on VMT. The Guidelines state: "If the project requires discretionary action and the answer is yes to the question below, further analysis is not required, and a less than significant determination can be made.

- Are 100% of the units, excluding manager's units, set aside for lower income households?"

The proposed project does not include any residential or low-income housing components; therefore, this screening criterion does not apply.

4.1.5 *Summary of Screening Conclusions*

The proposed project does not satisfy any of the four screening criteria stated in the County Guidelines and is not screened out of further analysis. Therefore, a VMT analysis is required in order to determine whether the proposed project will result in any significant transportation impacts.

4.2 Impact Criteria

The County Guidelines provides the following impact criteria for office land uses: "The project's employment VMT per employee[7] would not be 16.8% below the existing employment VMT per employee for the Baseline Area in which the project is located." While the proposed project is not an office project, employees are expected to be the main source of VMT generated by the project. Therefore, the office land use impact criteria presented above is applicable to the proposed project.

The proposed project is located in the South County Baseline Area, which generally consists of the region of Los Angeles County which is situated below the Santa Susana and San Gabriel Mountain Ranges. The County Guidelines state that the South County employment VMT baseline is 18.4 VMT per employee. Therefore, the threshold of 16.8% below the baseline employment VMT is 15.3 VMT per employee. A significant transportation impact would result if the project VMT exceeds 15.3 VMT per employee.

[7] "Employment VMT is the VMT generated by Home-Based Work trip attractions."

As of the preparation of this report, Los Angeles County is preparing revised VMT thresholds for use in determining the significance of VMT impacts in response to further guidance from OPR. It is understood that the revised thresholds will be applied County-wide, rather than separated by the North or South County Baseline areas. Based on coordination with Los Angeles County Public Works staff, it is further understood that the current South County thresholds are more environmentally protective (i.e., reflect a lower VMT threshold) than the forthcoming revised thresholds. Therefore, continuing to apply the current South County thresholds to the proposed project results in a conservative VMT impact analysis.

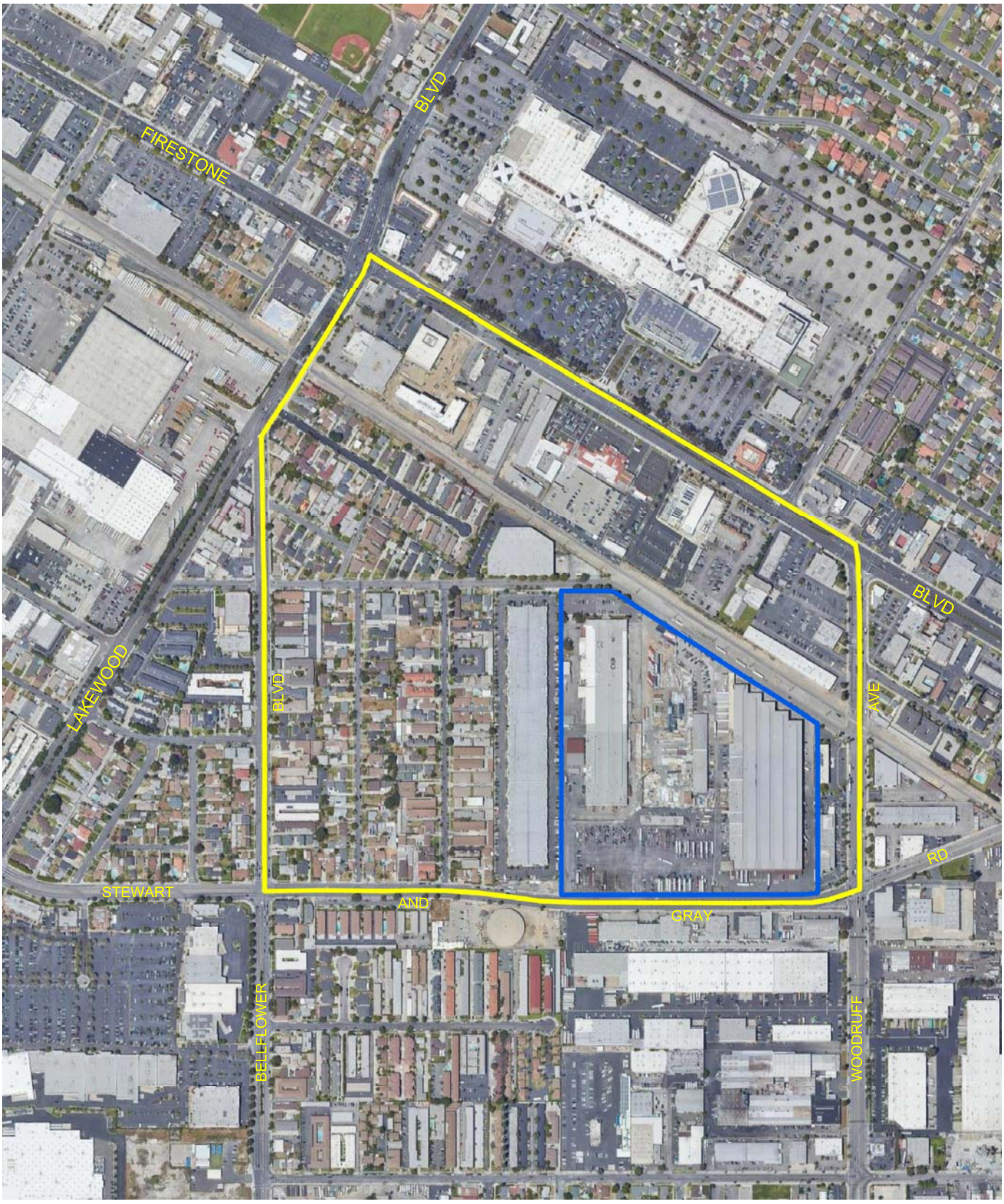
4.3 VMT Analysis

The Southern California Association of Governments Regional Travel Demand Model (SCAG RTDM) has been utilized to determine the employment VMT per employee for the proposed project. The project site is located within Traffic Analysis Zone (TAZ) 21791300. The TAZ is generally bounded by Firestone Boulevard to the north, Woodruff Avenue to the east, Stewart & Gray Road to the south, and Lakewood Boulevard and Bellflower Boulevard to the west as illustrated in ***Figure 4-1***. The existing land uses within the TAZ includes a mix of residential, commercial, and industrial land uses. Therefore, the proposed project is consistent with the land uses assumed for the TAZ, and the existing VMT per employee for the TAZ is an adequate proxy for the VMT per employee expected to be generated by the proposed project. Based on the SCAG RTDM model output for TAZ 21791300, the proposed project is forecast to generate a baseline employment VMT of 19.2 VMT per employee.

4.3.1 *CAPCOA Guidance and Project Design Features*

The California Air Pollution Control Officers Association's (CAPCOA*) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity*[8] ("2021 Handbook") provides a comprehensive set of guidelines for assessing and quantifying reductions in greenhouse gas emissions. The emissions reduction measures are grouped by emission sector into nine categories, including transportation, energy, water, and other related areas. Transportation emissions can be reduced by improving the emissions profile of the vehicle fleet, or by reducing VMT. Reductions in VMT are achieved when any of the following occurs: 1) vehicle ownership declines, 2) vehicle trips are reduced, 3) vehicle trip lengths are reduced, or 4) any combination of the first three variables. The 2021 Handbook lists 30 quantified measures covering a total of six transportation subsectors, including land use, trip reduction programs, parking or road pricing/management, neighborhood design, transit, and clean vehicles and fuels. The majority of the measures quantified in the 2021 Handbook aim to reduce VMT, although two strategies are aimed at improving the emissions profile of the vehicle fleet and thus do not result in quantified VMT reductions. The VMT reducing strategies are broadly referred to as transportation demand management (TDM) strategies due to the focus on reducing the amount of automobile travel generated by a project.

[8] *Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity Final Draft*, California Air Pollution Control Officers Association, December 2021, adopted December 15, 2021.



o:\job_file\4450\dwg\f4-1.dwg 08/17/2022 09:29:53 rodriquez

LINSCOTT LAW & GREENSPAN engineers

Project Site

TAZ 21791300

Figure 4-1
Los Angeles County Transportation Analysis Zones

The 2021 Handbook acknowledges that interactions between transportation measures are complex and sometimes counterintuitive, whereby combining measures can have substantive impact on reported emissions reductions. Therefore, in order to safeguard the accuracy and reliability of the methods, certain rules are recommended when combining reductions achieved by transportation measures. First, the quantified measures may be applied at one of two scales of application: 1) the Project/Site scale, which refers to measures that reduce VMT at the scale of a parcel, employer, or development project, or 2) the Plan/Community scale, which refers to measures that reduce emissions at the scale of a neighborhood (e.g., specific plan, general plan, or climate action plan), corridor, or entire municipality (e.g., city- or county-level). According to the 2021 Handbook, measures from different scales of application should never be combined. Second, the effectiveness of multiple measures within a subsector should be multiplied (i.e., not added) in order to determine a combined level of effectiveness. Each quantified measure has a maximum allowable reduction, and in turn each subsector has a maximum allowable reduction which is intended to ensure that emissions reductions are not double counted when measures within the subsector are combined. The subsector maximums vary by scale of application. Finally, there is limited research directly analyzing the combined VMT impact from implementation of all, or a majority, of transportation sector measures. However, the 2021 Handbook adopts a 70 percent (70%) maximum for the combined VMT reduction from the following four subsectors: land use, neighborhood design, parking or road pricing/management, and transit. The multi-subsector maximum does not include the trip reduction program subsector, since these measures are implemented by individual employers and not as directly correlated with place type as the other subsectors. For the purpose of this VMT analysis, measures at the Project/Site scale of application were determined to be the most appropriate for the proposed project.

Certain TDM strategies may qualify as a project design feature (PDF). Generally, PDFs are those measures which are required in order to comply with local ordinances, affordable housing incentives, state law, etc. PDFs also include reductions in VMT that are inherent to the proposed project, such as reductions that result from changes in land use mix, planned parking supply, etc. The following TDM strategies have been determined to be applicable as project design features:

- T-2. Increase Job Density

  This measure accounts for the VMT reduction achieved by a project that is designed with a higher density of jobs compared to the average job density in the country. When reductions are being calculated from a baseline derived from a travel demand model, the job density of the relevant TAZ is used for the comparison instead. Increased densities affect the distance people travel and provide greater options for the mode of travel they choose. Increasing job density results in shorter and fewer trips by single-occupancy vehicles and thus a reduction in VMT.

  The project VMT forecast is derived from the SCAG RTDM output data. Therefore, the reduction in VMT that is expected to result due to the development of the proposed project is determined by comparing the existing job density in TAZ 21791300 without and with the

proposed project. The number of existing jobs and acres in the TAZ was obtained from the RTDM. The number of jobs with the proposed project was developed based on trip rates provided by ITE for the proposed project and for the existing land use, resulting in a forecast net increase of 2,097 employees in the TAZ.

The project design feature described above is expected to result in a 9.9 percent (9.9%) reduction in VMT generated by the proposed project. Calculation and summary worksheets for the VMT reduction associated with the project design feature is provided in ***Appendix B***. Application of the VMT reduction to the baseline VMT forecast derived from the RTDM results in the following VMT forecast:

- The proposed project is forecast to generate 17.3 VMT per employee (i.e., 19.2 VMT/employee * (1-0.099) = 17.3 VMT/employee), when accounting for project design features.

The forecast of project-generated VMT per employee exceeds the South County threshold of 15.3 VMT per employee; therefore, the proposed project is expected to result in a significant VMT impact. A summary of the project-level VMT analysis is presented in ***Table 4-1***, which presents the baseline VMT forecast and the VMT reductions due to project design features.

4.4 CEQA Transportation Mitigation Measures

As described above, based on the baseline VMT forecasts from RTDM and application of appropriate VMT reductions due to project design features, the proposed project is expected to result in a significant VMT impact. CEQA requires identification of mitigation measures to reduce a significant environmental impact to the greatest extent possible. The 2021 Handbook was reviewed to identify any additional TDM measures which would further mitigate the project VMT impact. The measures were reviewed for applicability to the proposed project based on land use type, location, and feasibility of implementation. The TDM strategies which have been selected for the proposed project as VMT mitigation measures are described in further detail below.

- T-7. Implement Commute Trip Reduction Marketing

  This measure reflects implementation of a marketing strategy to promote the CTR. Information sharing and marketing educates employees about their travel choices to and from the location and promotes alternatives to driving such as carpooling, taking transit, walking, and biking, thereby reducing VMT. Effective marketing strategies incorporate the following features or similar alternatives:

  - On-site or online commuter information services.
  - Employee transportation coordinators.
  - On-site or online transit pass sales.
  - Guaranteed ride home service.

Table 4-1
SUMMARY OF VEHICLE MILES TRAVELED (VMT) ANALYSIS [1]

VMT ANALYSIS CONDITIONS	VMT
Baseline VMT per Employee from SCAG RTDM [2]	19.2
VMT Reductions Due to Project Design Features [3]	*-9.9%*
Project-Generated VMT per Employee [4]	17.3
Significant Impact? (Yes/No) [5]	YES
VMT Reductions Due to Mitigation Measures [3]	*-11.90%*
Project-Generated VMT per Employee After Mitigation [6]	15.2
Significant Impact? (Yes/No) [5]	NO

[1] The VMT analysis presented in this table, including all adjustments and VMT reductions, is described in detail in *Section 4.0.*
[2] Baseline VMT per employee obtained from the Southern California Association of Governments (SCAG) Regional Travel Demand Model (RTDM) for transportation analysis zone (TAZ) 21791300.
[3] The VMT reduction calculations are presented in *Appendix B.*
[4] Baseline VMT * (1-0.099) = Project-Generated VMT
[5] A significant impact occurs when the project-generated VMT per Employee exceeds the South County threshold of 15.3 VMT per Employee.
[6] Project-Generated VMT * (1-0.119) = Project-Generated VMT After Mitigation

The project applicant should provide information on available travel options to and from the project site in a clear and easily accessible location (e.g., a bulletin board in a common employee area), including information on where transit passes may be purchased online or in person. The project applicant should also designate an employee transportation coordinator who will be able to provide information and/or administer a guaranteed ride home service. Such services may consist of providing free or subsidized rides upon request via taxis or other transportation network companies (TNC) such as Uber or Lyft.

- T-8. Provide Ridesharing Program

  This measure reflects implementation of a ridesharing program. Ridesharing encourages carpooled vehicle trips in place of single-occupancy vehicle trips, thereby reducing the number of trips and VMT. Ridesharing may be promoted through a multifaceted approach, such as designating parking spaces for ridesharing/carpooling vehicles, dedicating loading and waiting zones, and coordinating rides.

  The project applicant should provide designated parking spaces for carpool vehicles in a convenient/preferential location, and a designated waiting area for employees participating in ridesharing which is comfortable and convenient. The project applicant should facilitate the process of arranging ridesharing or carpooling matches, either through a website/app or via the employee transportation coordinator (refer to measure T-7 above).

- T-10. Provide End-of-Trip Bicycle Facilities

  This measure reflects provision of end-of-trip bicycle facilities such as secure bike parking, showers, and personal lockers. Providing and maintaining securing bike parking and related facilities encourages commuting by bicycle, thereby reducing VMT.

  Current research indicates that employees are more likely to commute to work by bicycle when showers and personal lockers are provided. However, the project applicant should at a minimum provide secure bicycle parking (e.g., bicycle lockers) in an easily accessible, well-lit location.

The mitigation measures described above are expected to result in an 11.9 percent (11.9%) reduction in commute VMT generated by the proposed project. Calculation and summary worksheets for the VMT reductions associated with these mitigation measures are provided in *Appendix B*. Since the VMT per employee analysis for the proposed project is based on home-based work trips (i.e., commute trips), the 11.9% reduction in commute VMT equates to an 11.9% reduction in VMT per employee. Application of the 11.9 % VMT reduction would therefore result in the following project VMT after mitigation:

- The proposed project is expected to generate 15.2 VMT per employee (i.e., 17.3 VMT/employee * (1-0.119) = 15.2 VMT/employee) with implementation of mitigation measures.

The VMT reductions due to mitigation measures and the resulting project-level VMT per employee are summarized in *Table 4-1*. The proposed project's mitigated VMT per employee would fall below the threshold of 15.3 VMT per employee. Therefore, with implementation of the mitigation measures, the proposed project is expected to have a less than significant VMT impact.

It is recommended that the project applicant prepare a formal TDM Plan for review and approval by the City prior to the issuance of any grading or building permits. The TDM Plan should identify the TDM measures that will be implemented for the project site, and should include documentation of how both physical measures (e.g., bike lockers, designated carpool parking spaces, etc.) and programmatic measures (e.g., guaranteed ride home program, employee transportation coordinator, etc.) will be provided. The TDM Plan should be implemented for the life of the project. If the project site owner or tenant proposes to provide different TDM measures after City approval of the TDM Plan, a new TDM Plan should be submitted for review and approval, and an analysis should be provided to demonstrate that the selected measures are expected to achieve the same trip and VMT reductions required by the analysis presented herein.

4.5 Cumulative Impact Analysis

The County's Guidelines state that short-term effects are evaluated in the detailed project-level VMT analysis, while long-term or cumulative effects are determined through consistency with SCAG's current RTP/SCS, which is called Connect SoCal. Connect SoCal is the regional plan that demonstrates compliance with air quality conformity requirements and greenhouse gas (GHG) reduction targets. As such, projects that are consistent with this plan in terms of development location, density, and intensity are part of the regional solution for meeting air pollution and GHG goals. Projects that are deemed to be consistent would have a less than significant cumulative impact on VMT. Developments in a location where the RTP/SCS does not specify any development may indicate a significant impact on transportation. However, if a project does not demonstrate a significant impact in the project impact analysis, a less than significant impact in the cumulative impact analysis can also be determined. Projects that fall under an efficiency-based impact threshold (e.g., residential VMT per capita, employment VMT per employee, or total VMT per service population) are already shown to align with the long-term VMT and GHG reduction goals. Land use projects that demonstrate a project-level impact and which are not found to be consistent with the SCAG RTP/SCS could have a significant transportation impact.

The Technical Advisory provides the following additional discussion of cumulative impacts: "[M]etrics such as VMT per capita or VMT per employee, i.e., metrics framed in terms of efficiency (as recommended below for use on residential and office projects), cannot be summed because they employ a denominator. A project that falls below an efficiency-based threshold that is aligned with long-term goals and relevant plans has no cumulative impact distinct from the project impact. Accordingly, a finding of a less-than-significant project impact would imply a less than significant cumulative impact, and vice-versa."

The proposed project has been determined to have a less than significant project-level impact after mitigation in comparison to the County's efficiency-based employment VMT impact thresholds. Therefore, it is concluded that the proposed project will not result in a significant cumulative impact.

5.0 NON-CEQA ANALYSIS

Based on coordination with City of Downey staff, the following eight (8) study intersections were identified for operational evaluation of the proposed project and other cumulative developments in the study area:

1. Woodruff Avenue & Firestone Boulevard (Signalized)
2. Woodruff Avenue & Hall Road (Two Way Stop Control)
3. Woodruff Avenue & Stewart & Gray Road (Signalized)
4. Woodruff Avenue & Washburn Road (Signalized)
5. Woodruff Avenue & Imperial Highway (Signalized)
6. Newville Avenue-Stewart & Gray Road & Firestone Boulevard (Signalized)
7. I-605 Freeway Southbound Ramps & Firestone Boulevard (Signalized)
8. I-605 Freeway Northbound Ramps-Hoxie Avenue & Firestone Boulevard (Signalized)

5.1 Analysis Methodology

In order to estimate the proposed project's effect on intersection operations, a multi-step process has been utilized. The first step is trip generation, which estimates the total arriving and departing traffic volumes on a peak hour and daily basis. The second step of the forecasting process is trip distribution, which identifies the origins and destinations of inbound and outbound project traffic volumes. These origins and destinations are typically based on demographics and existing/anticipated travel patterns in the study area. The third step is traffic assignment, which involves the allocation of project traffic to study area streets and intersections. Traffic distribution patterns are indicated by general percentage orientation, while traffic assignment allocates specific volume forecasts to individual roadway links and intersection turning movements throughout the study area. The proposed project's forecast trip generation, distribution, and assignment is presented in *Section 2.6* herein. With the forecasting process complete and project traffic assignments developed, the effect of the proposed project is isolated by comparing operational conditions at the selected study intersections using existing and expected future traffic volumes without and with forecast project traffic.

The City of Downey signalized study intersections were evaluated using the Intersection Capacity Utilization (ICU) method of analysis which determines Volume-to-Capacity (*v/c*) ratios on a critical lane basis. The overall intersection *v/c* ratio is subsequently assigned a Level of Service (LOS) value to describe intersection operations. Level of Service varies from LOS A (free flow) to LOS F (jammed condition). A description of the ICU method and corresponding Levels of Service is provided in ***Appendix C***.

The I-605 Freeway Southbound Ramps/Firestone Boulevard and I-605 Freeway Northbound Ramps-Hoxie Avenue/Firestone Boulevard intersections (i.e., both located outside the City of Downey boundaries and under Caltrans jurisdiction) as well as the City of Downey unsignalized/two-way stop-control (TWSC) Woodruff Avenue/Hall Road study intersection were evaluated using the Highway Capacity Manual (HCM) method of analysis. The HCM method calculates the control

delay for each of the subject traffic movements at a study intersection and determines the level of service for each constrained movement. The control delay for any particular movement is a function of the capacity of the approach and the degree of saturation. The overall control delay is measured in seconds per vehicle, and includes delay due to deceleration to a stop at the back of the queue from free-flow speed, move-up time within the queue, stopped delay at the front of the queue, and delay due to acceleration back to free-flow speed. The Level of Service (LOS) for the intersection is then calculated based on the overall control delay.

Caltrans released the *Transportation Impact Study Guide*[9] (TISG) in May 2020 which replaced the 2002 Guide for the Preparation of Traffic Impact Studies. Per the TISG, Caltrans has transitioned away from requesting LOS or other vehicle operations analyses of land use projects. Thus, the following operational assessment pertaining to Caltrans intersections is provided for informational purposes only. In addition, it should be noted that level of service is not defined for two-way stop-control intersections because major-street movements with no delays typically result in a weighted average delay that is extremely low. Therefore, for the purpose of this analysis the delay associated with the most constrained approach at the intersection was utilized to determine the overall intersection level of service for the two-way stop-control intersection. The six qualitative categories of level of service and detailed description of the HCM signalized and unsignalized intersection methods and corresponding LOS are provided in *Appendix C*.

5.2 Criteria for Non-CEQA Analysis

The relative effect of the added project traffic volumes to be generated by the proposed project during the weekday AM and PM peak hours was evaluated based on analysis of existing and future operating conditions at the study intersections, without and with the proposed project. The previously discussed capacity analysis procedures were utilized to evaluate the future *v/c* or delay relationships and service level characteristics at each study intersection.

The effect of project-generated traffic at each City of Downey study intersection was compared to the City of Downey's intersection LOS standards as presented below. The Downey Vision 2025 Circulation Element of the General Plan has established vehicle Level of Service (LOS) standards which local infrastructure will strive to maintain. The Circulation Element defines acceptable level of service as LOS D or better, along with the following applicable policy and program:

- Policy 2.1.1. Maintain a street system that provides safe and efficient movement of people and goods.
    - Program 2.1.1.1. Maintain intersections and street segments at acceptable service levels and not worsen those intersections and street segments currently operating at unacceptable levels.

[9] "Vehicle Miles Traveled-Focused Transportation Impact Study Guide", Caltrans, May 20, 2020.

For purposes of this analysis, an intersection would be found inconsistent with the City's Circulation Element if project traffic causes the intersection to degrade from an acceptable LOS to an unacceptable LOS (i.e., LOS E or LOS F). For an intersection already operating at unacceptable LOS, any increase in the intersection's Volume-to-Capacity ratio would be found inconsistent with the City's Circulation Element. The following section presents the operational (i.e., Level of Service) analysis prepared for the proposed project pursuant to this requirement.

The operational analysis was prepared utilizing the following data previously presented herein:

- Project Peak Hour Traffic Generation: Refer to Section 2.6.1 herein for the project traffic generation forecasts.
- Project Trip Distribution and Assignment: Refer to Section 2.6.2 herein.
- Existing Roadway Network: Refer to Section 3.3 herein.
- Existing Weekday AM and PM Peak Hour Traffic Count Data: Refer to Section 3.4 herein.
- Related Projects: Refer to Section 3.5.1 herein.

5.3 Analysis Scenarios

Level of Service calculations have been prepared for the following scenarios for the study intersections:

[a] Existing conditions.

[b] Existing with project conditions.

[c] Condition [a] plus one percent (1.0%) per year annual ambient traffic growth through year 2024 and with completion and occupancy of the related projects (i.e., future without project conditions).

[d] Condition [c] with completion and occupancy of the proposed project.

[e] Condition [d] with implementation of intersection improvement measures, if necessary.

The weekday AM and PM peak hour LOS analysis prepared for the study intersections using the ICU and HCM methodologies is summarized in ***Table 5-1***. The ICU and HCM data worksheets for the analyzed intersections are provided in *Appendix C*.

5.4 Existing Conditions

5.4.1 *Existing Conditions*

As indicated in column [1] of *Table 5-1*, seven of the eight study intersections are presently operating at LOS D or better during the AM and PM peak hours under existing conditions. The

Table 5-1
SUMMARY OF VOLUME TO CAPACITY RATIOS, DELAYS
AND LEVELS OF SERVICE
WEEKDAY AM AND PM PEAK HOURS

				[1]		[2]			[3]		[4]		
NO.	INTERSECTION	TRAFFIC CONTROL	PEAK HOUR	YEAR 2022 EXISTING V/C or DELAY	LOS [a]	YEAR 2022 EXISTING W/ PROJECT V/C or Delay	LOS [a]	CHANGE V/C or DELAY [(2)-(1)]	YEAR 2024 FUTURE PRE-PROJECT V/C or DELAY	LOS [a]	YEAR 2024 FUTURE W/ PROJECT V/C or DELAY	LOS [a]	CHANGE V/C or DELAY [(4)-(3)]
1	Woodruff Avenue/ Firestone Boulevard	Signalized	AM PM	0.586 0.650	A B	0.579 0.675	A B	-0.007 0.025	0.608 0.672	B B	0.602 0.697	B B	-0.006 0.025
2	Woodruff Avenue/ Hall Road [c]	Two-Way Stop	AM PM	18.9 15.8	C C	19.9 15.4	C C	1.0 -0.4	20.0 16.4	C C	21.1 16.0	C C	1.1 -0.4
3	Woodruff Avenue/ Stewart and Gray Road	Signalized	AM PM	0.618 0.563	B A	0.614 0.610	B B	-0.004 0.047	0.649 0.585	B A	0.646 0.632	B B	-0.003 0.047
4	Woodruff Avenue/ Washburn Road	Signalized	AM PM	0.488 0.469	A A	0.490 0.472	A A	0.002 0.003	0.505 0.484	A A	0.507 0.487	A A	0.002 0.003
5	Woodruff Avenue/ Imperial Highway	Signalized	AM PM	0.733 0.834	C D	0.737 0.838	C D	0.004 0.004	0.756 0.854	C D	0.761 0.858	C D	0.005 0.004
6	Newville Avenue-Stewart and Gray Road/ Firestone Boulevard	Signalized	AM PM	0.593 0.676	A B	0.596 0.664	A B	0.003 -0.012	0.619 0.702	B C	0.621 0.691	B B	0.002 -0.011
7	I-605 Freeway SB Ramps/ Firestone Boulevard [b]	Signalized	AM PM	35.7 23.4	D C	30.8 28.1	C C	-4.9 4.7	38.0 25.4	D C	32.6 30.6	C C	-5.4 5.2
8	I-605 Freeway NB Ramps-Hoxie Avenue/ Firestone Boulevard [b]	Signalized	AM PM	134.7 64.8	F E	116.9 73.2	F E	-17.8 8.4	132.6 66.1	F E	112.4 74.1	F E	-20.2 8.0

[a] Level of Service (LOS) is based on the reported ICU value for the City of Downey signalized intersections and the delay value for unsignalized intersections.

[b] Caltrans signalized Intersection Levels of Service were based on the following criteria:

Control Delay (s/veh)	LOS
<= 10	A
> 10-20	B
> 20-35	C
> 35-55	D
> 55-80	E
> 80	F

Two-Way Stop-Controlled Intersection Levels of Service were based on the following criteria:

Control Delay (s/veh)	LOS
<= 10	A
> 10-15	B
> 15-25	C
> 25-35	D
> 35-50	E
> 50	F

[c] Two-Way Stop-Controlled Intersection. Reported values represent the delays (in seconds) associated with the most constrained approach of the intersection.

following study intersection is operating at LOS E or LOS F during the peak hours shown under existing conditions:

- Int. 8: I-605 NB Ramps-Hoxie Ave & Firestone Bl
  AM Peak Hour: Delay > 80.0 seconds, LOS F
  PM Peak Hour: 64.8 seconds, LOS E

The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 3-5*, and *3-6*, respectively.

5.4.2 *Existing With Project Conditions*

As shown in column [2] of *Table 5-1*, seven of the eight study intersections are expected to continue operating at LOS D or better during the AM and PM peak hours under the existing with project conditions. The following study intersection is expected to continue operating at LOS E or LOS F during the peak hours shown under the existing with project conditions:

- Int. 8: I-605 NB Ramps-Hoxie Ave & Firestone Bl
  AM Peak Hour: Delay > 80.0 seconds, LOS F
  PM Peak Hour: 73.2 seconds, LOS E

The existing with project traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in ***Figures 5-1*** and ***5-2***, respectively.

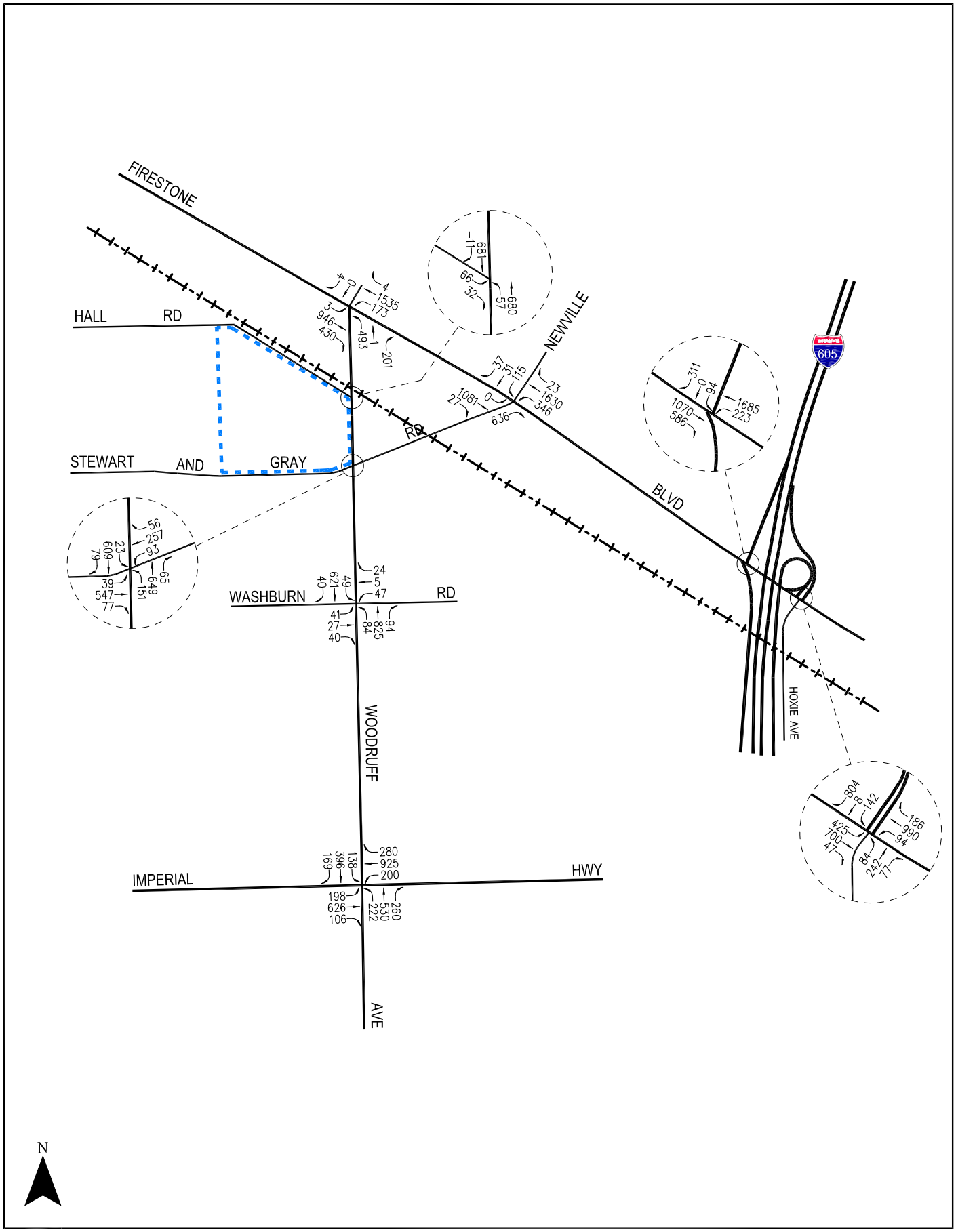
5.5 Future Year 2024 Cumulative Conditions

5.5.1 *Future Year 2024 Cumulative Without Project Conditions*

The future year 2024 cumulative baseline conditions were forecast based on the addition of traffic generated by the completion and occupancy of the related projects, as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). The *v/c* ratios and delay values at the study intersections are incrementally increased with the addition of ambient traffic and traffic generated by the related projects listed in *Table 3–4*. As presented in column [3] of *Table 5-1*, seven of the eight study intersections are expected to continue to operate at LOS D or better during the AM and PM peak hours under the future year 2024 cumulative without project conditions. The following study intersection is expected to continue operating at LOS E or LOS F during the peak hours shown under the future year 2024 cumulative without project conditions:

- Int. 8: I-605 NB Ramps-Hoxie Ave & Firestone Bl
  AM Peak Hour: Delay > 80.0 seconds, LOS F
  PM Peak Hour: 66.1 seconds, LOS E

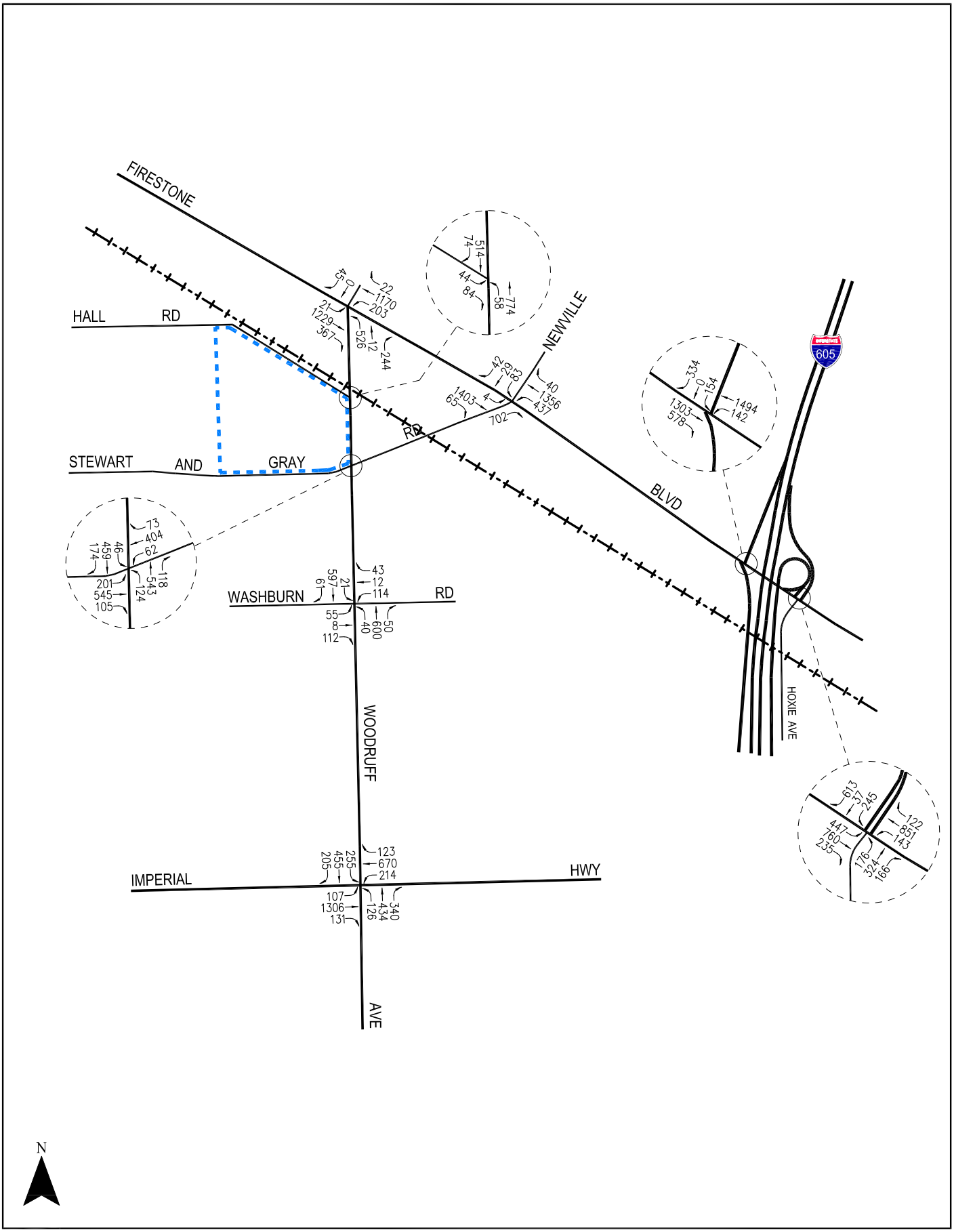
The future year 2024 cumulative without project traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in ***Figures 5-3***, and ***5-4***, respectively.



Project Site

Figure 5-1
Existing With Project Traffic Volumes
Weekday AM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f5-1.dwg 01/04/2023 16:43:29 rodriquez

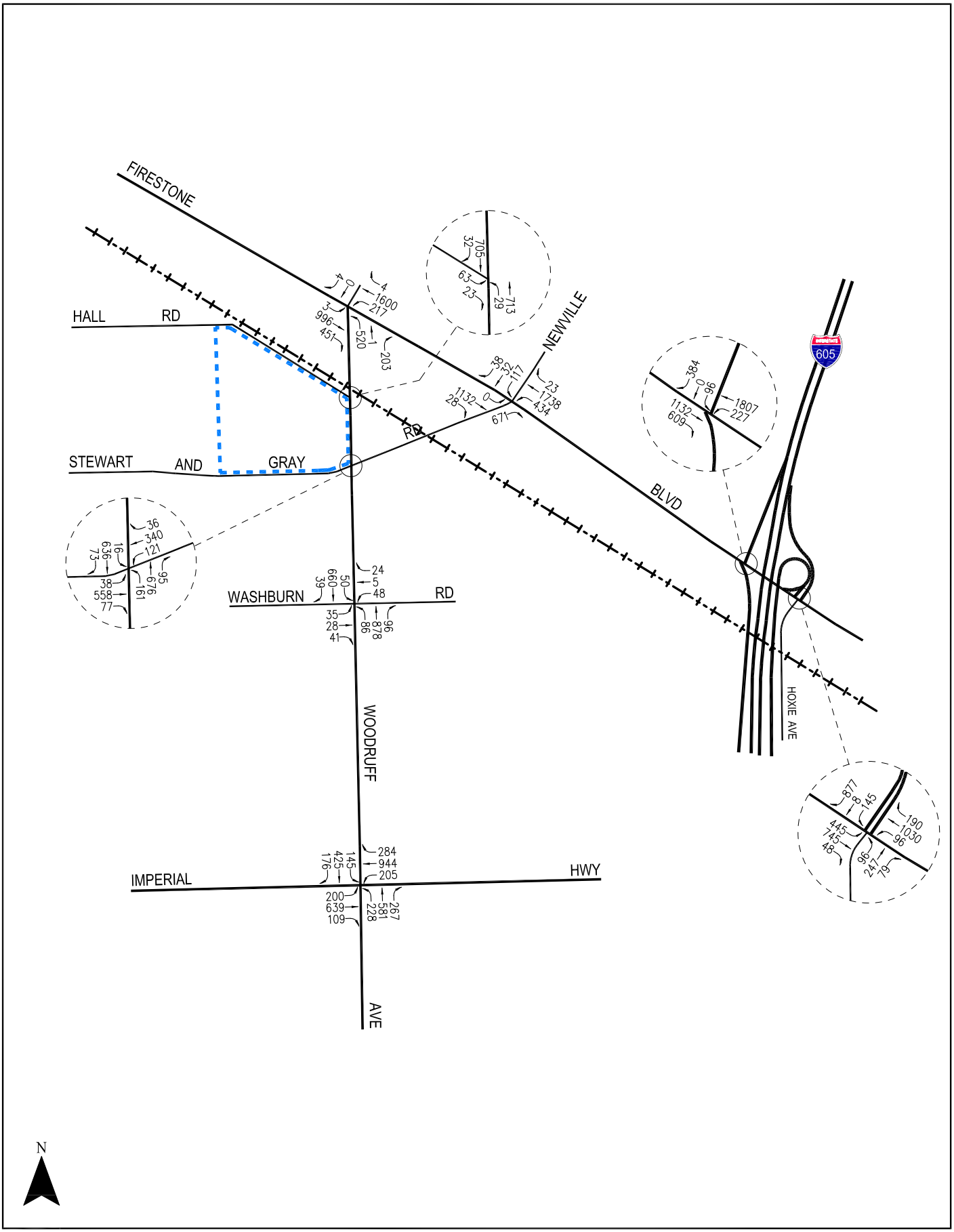


Project Site

LINSCOTT LAW & GREENSPAN engineers

Figure 5-2
Existing With Project Traffic Volumes
Weekday PM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

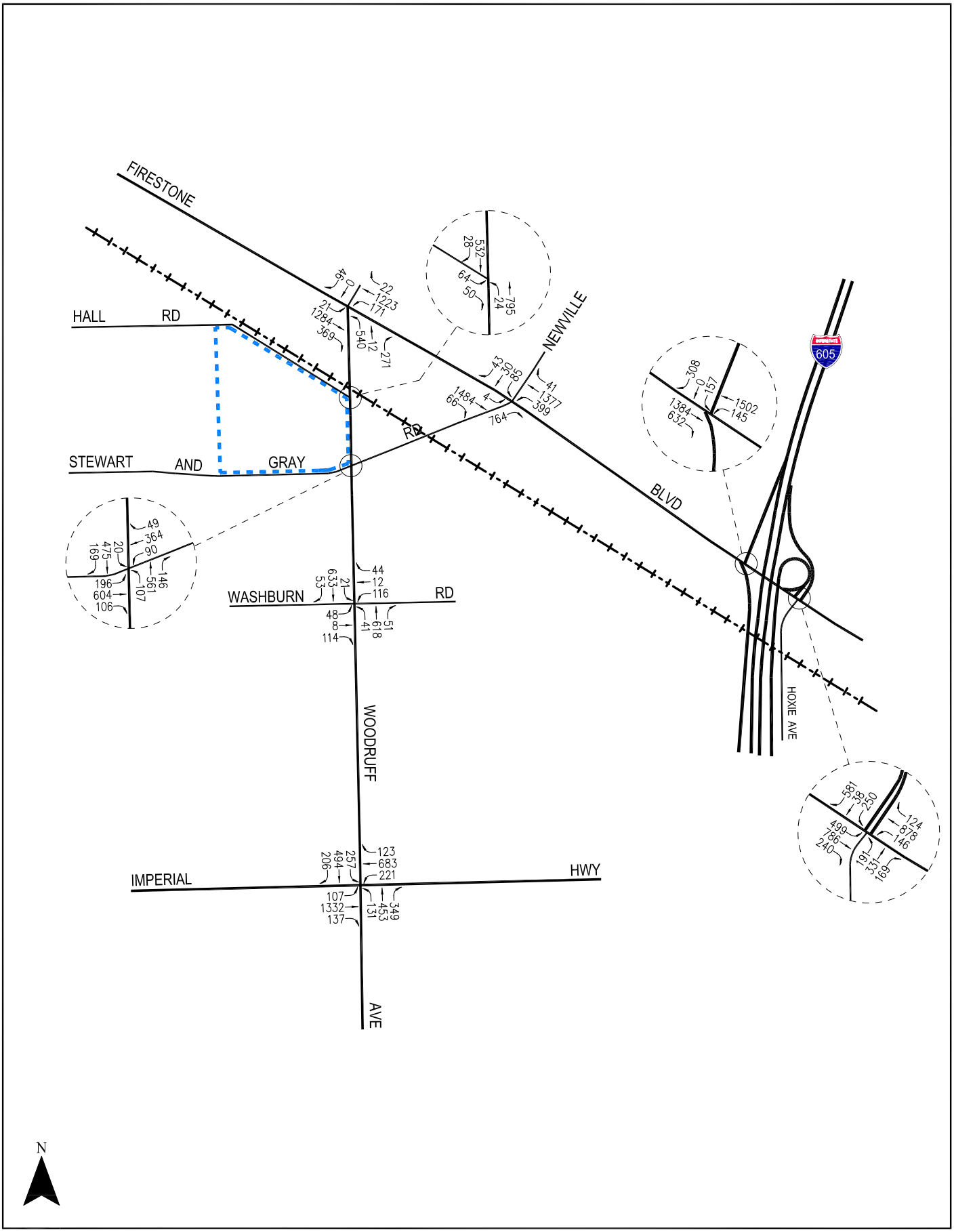
o:\job_file\4450\dwg\f5-2.dwg 01/04/2023 16:43:24 rodriquez



Project Site

Figure 5-3
Future Without Project Traffic Volumes
Weekday AM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f5-3.dwg 01/04/2023 16:43:18 rodriquez



Project Site

Figure 5-4
Future Without Project Traffic Volumes
Weekday PM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

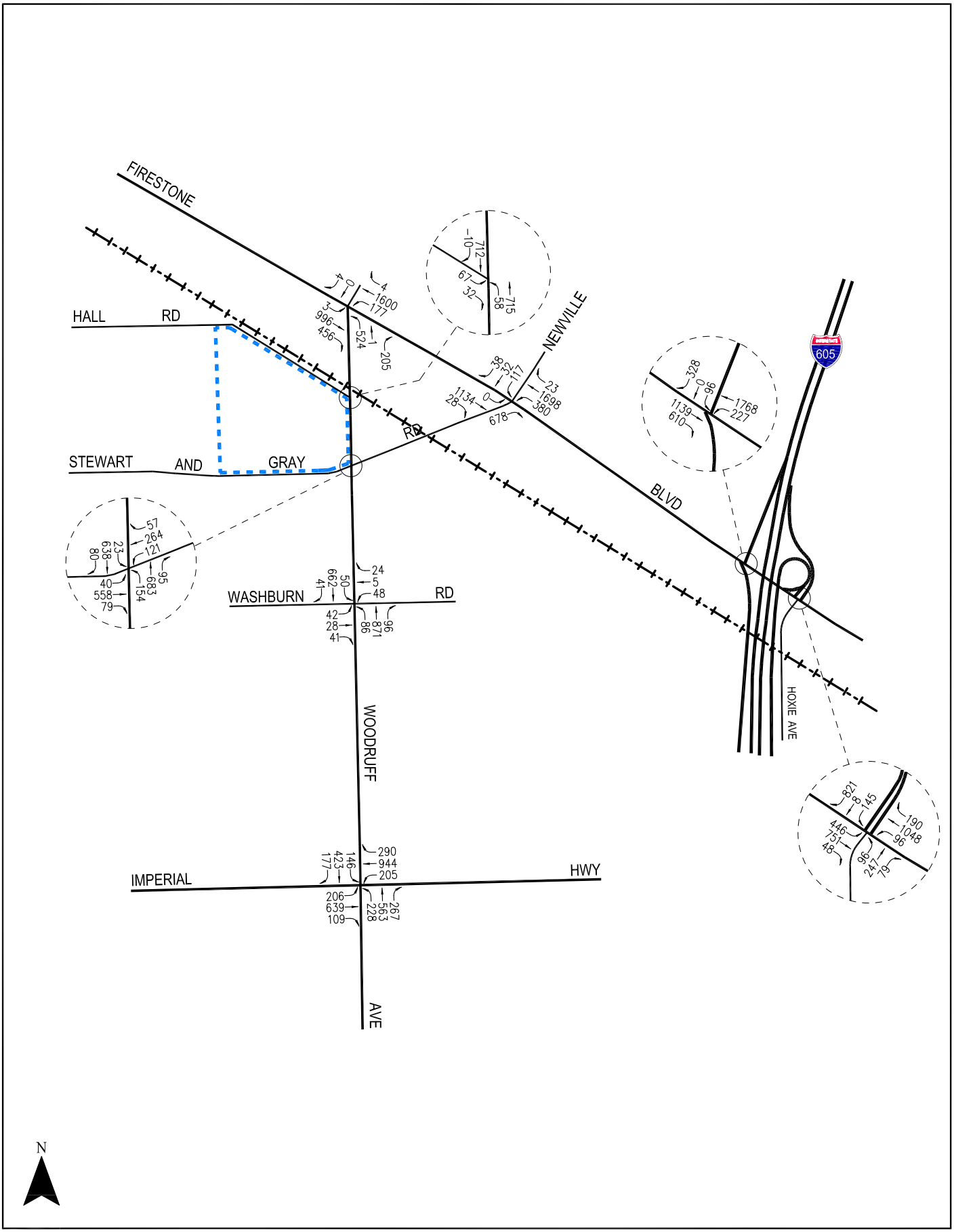
o:\job_file\4450\dwg\f5-4.dwg 01/05/2023 09:19:25 rodriquez

5.5.2 *Future Year 2024 Cumulative With Project Conditions*

As shown in column [4] of *Table 5-1,* seven of the eight study intersections are expected to continue to operate at LOS D or better during the AM and PM peak hours under the future year 2024 cumulative with project conditions. The following study intersection is expected to continue operating at LOS E or LOS F during the peak hours shown under the future year 2024 cumulative with project conditions:

- Int. 8: I-605 NB Ramps-Hoxie Ave & Firestone Bl
  AM Peak Hour: Delay > 80.0 seconds, LOS F
  PM Peak Hour: 74.1 seconds, LOS E

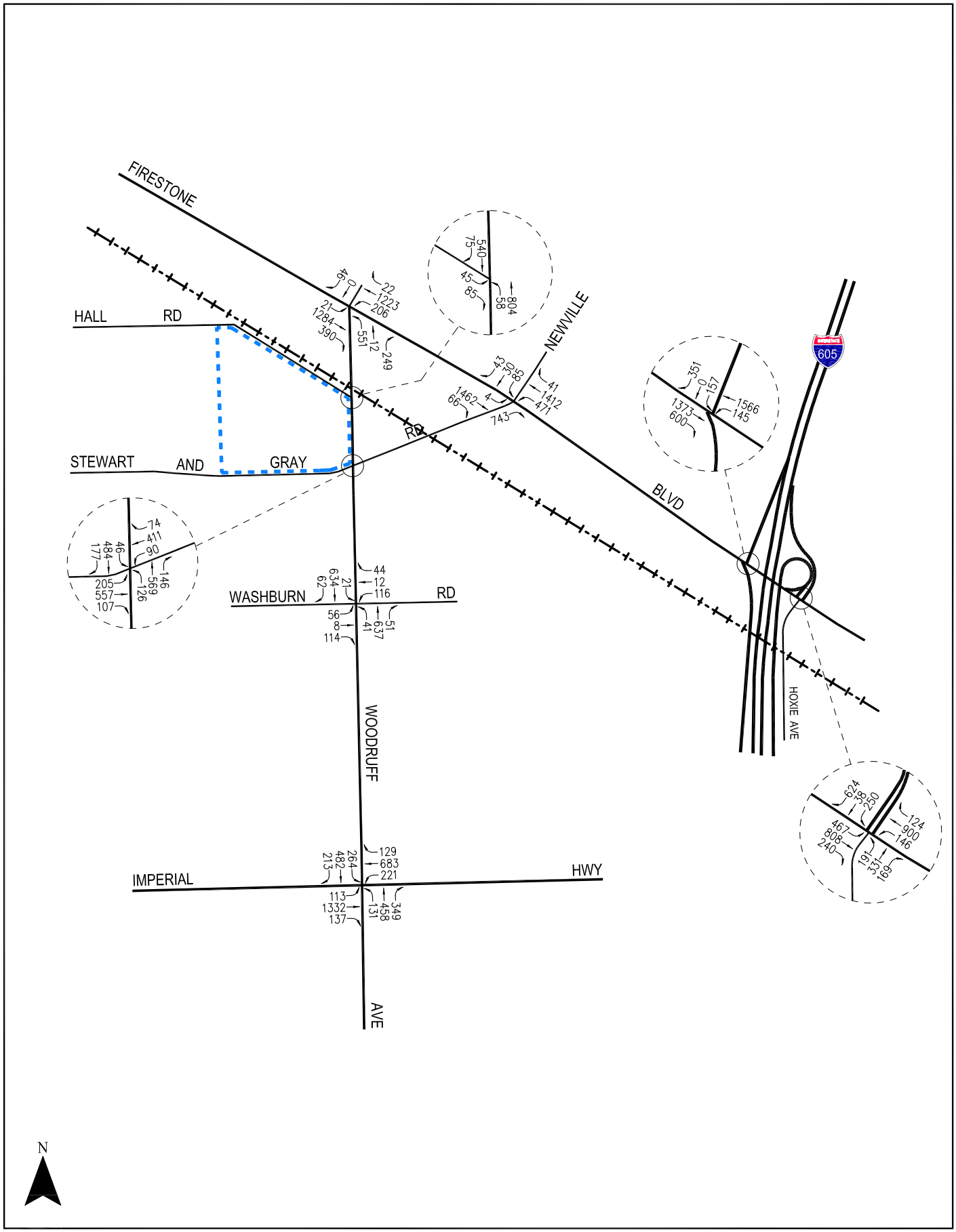
Application of the City's criteria to the "Future Year 2024 Cumulative With Project" scenario indicates that the project-related effects at the City of Downey study intersections are not expected to exceed the City's threshold criteria. Incremental v/c and delay increases, but not exceeding the City's criteria, are noted at the study intersections. As none of the City of Downey study intersections would be found inconsistent with the City's Circulation Element, no intersection improvement measures are required or recommended for the study intersections. The future year 2024 cumulative with project traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in ***Figures 5-5***, and ***5-6***, respectively.



Project Site

Figure 5-5
Future With Project Traffic Volumes
Weekday AM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f5-5.dwg 01/04/2023 16:43:10 rodriquez



Project Site

Figure 5-6
Future With Project Traffic Volumes
Weekday PM Peak Hour
Prologis Stewart & Gray Road Warehouse Project

o:\job_file\4450\dwg\f5-6.dwg 01/04/2023 16:42:59 rodriquez

6.0 ROADWAY SEGMENT ANALYSIS

Based on coordination with City of Downey staff, the following three (3) roadway segments were selected for analysis as part of the transportation analysis:

1. Woodruff Avenue, between Hall Road and Stewart & Gray Road

2. Hall Road, west of Woodruff Avenue

3. Stewart & Gray Road, west of Woodruff Avenue

The street segment analysis criteria was previously shown in Section 5.2 herein. The following section presents the roadway segment analysis prepared for the proposed project.

6.1 Roadway Segment Analysis

As described in *Subsection 3.4*, average daily traffic data collected in October 2021 was utilized for the roadway segment analysis. The forecast traffic conditions at the analyzed street segments for existing, existing with project, future pre-project, and future with project scenarios for weekday conditions are summarized in ***Table 6-1***. As shown in Column [1] of *Table 6-1*, all three study roadway segments are presently operating under acceptable service levels (i.e., LOS D or better). As shown in Column [3] of *Table 6-1*, the proposed project is forecast to result in a net increase of 33 PCE-adjusted daily vehicle trips on Woodruff Avenue, 70 daily trips on Hall Road, and 70 daily trips on Stewart & Gray Road.

As shown in Column [5] of *Table 6-1*, for purposes of estimating future pre-project traffic volumes, a one percent (1.00 %) annual ambient growth rate through the year 2024 was added to the existing ADT volume in order to estimate the future pre-project traffic volumes to account for increases in general ambient traffic. Based on the relatively small net increases in project daily traffic, all three study roadway segments are expected to continue to operate at acceptable LOS D or better under the future year 2024 cumulative with project conditions. Therefore, no roadway improvement measures are required or recommended for the study roadway segments.

Table 6-1
ROADWAY SEGMENT ANALYSIS

Segment	[1] Existing ADT Volume	Proposed Project				Future 2024 Conditions	
		[2] Proposed Project Dist %		[3] Project Daily Trips	[4] Existing + Proj. Vol	[5] Future ADT Vol	[6] Fut + Proj ADT Vol
		In	Out				
1 Woodruff Avenue btwn Hall Rd and Stewart and Gray Rd	13,959	20%	20%	33	13,992	14,378	14,411
2 Hall Road west of Woodruff Avenue	2,292	42%	42%	70	2,362	2,361	2,431
3 Stewart and Gray Road west of Woodruff Avenue	18,810	42%	42%	70	18,880	19,375	19,445

[1] Existing Average Daily Traffic (ADT) volume represents two-way average daily traffic. Counts were conducted in October 2021 by Counts Unlimited.

[2] Distribution of inbound and outbound proposed project daily traffic at the analyzed street segment.

[3] Daily project volume includes inbound and outbound trips based on the proposed project net new daily total volume of 167 weekday daily trip ends.

[4] Derived by combining the existing traffic volumes and the proposed net new project volumes (i.e., total of columns [1] and [3]).

[5] An ambient growth rate of 1.00% per year was assumed to derive the year 2024 traffic volumes based on the 2010 CMP for Los Angeles County document.

[6] Derived by combining the proposed net new project volumes with the future traffic volumes (i.e., column [3]+column [5]).

7.0 NEIGHBORHOOD TRAFFIC IMPACT

Based on coordination with City of Downey staff, the neighborhood on Hall Road west of the project site was identified for evaluation of potential impacts due to the proposed project. Specifically, the residential neighborhood on Hall Road, west of Coldbrook Avenue, was evaluated. While existing traffic count data was not specifically collected for this neighborhood roadway segment, the nearby Hall Road segment west of Woodruff Avenue was evaluated as part of the project's roadway segment analysis, as described in *Subsection 6.1*. Based on a review of the traffic volume data, it was determined that the existing traffic volumes on Hall Road, west of Coldbrook Avenue, would be similar and likely be less than the existing traffic volumes conducted at the analyzed roadway segment of Hall Road, west of Woodruff Avenue.

As discussed in Subsection 2.6.2 and shown in *Figure 2-3*, approximately eight percent (8%) of the project's passenger vehicle traffic is forecast to utilize Hall Road to and from the west (i.e., west of Coldbrook Avenue). Furthermore, based on the recommended restriction of no outbound left-turn movements for trucks at the Hall Road project driveways, no project-related truck traffic is expected to be added on Hall Road to and from the west. As part of the entitlement, a condition of approval will be applied to further prohibit truck traffic through Hall Road west of the project site. Thus, the proposed project is forecast to result in a net increase of 13 PCE-adjusted daily vehicle trips on Hall Road west of Coldbrook Avenue based on the estimated 8% of the 167 net new daily PCE vehicle trips forecast to be generated by the project as previously shown in *Table 2-1*. Based on the character of Hall Road adjacent to the project site and the existing network connectivity in the vicinity, the proposed project is not anticipated to generate substantial traffic in the vicinity of the project site which would adversely affect the character and function of nearby roadways. Therefore, no additional measures to prevent potential traffic impacts in the nearby neighborhoods are required or recommended.

8.0 CALIFORNIA DEPARTMENT OF TRANSPORTATION ASSESSMENT

The California Department of Transportation (Caltrans) has formally adopted VMT as the metric for evaluating the transportation impacts of local development projects on the State Highway System. Caltrans' *Transportation Impact Study Guide*[10] (TISG) references the December 2018 *Technical Advisory on Evaluating Transportation Impacts in CEQA*[11] prepared by the Governor's Office of Planning and Research (OPR) as the basis for its guidance on VMT assessment. For the purpose of this transportation assessment, it is understood that Los Angeles County's adopted VMT methodology and screening criteria is substantially consistent with the recommendations provided in the *Technical Advisory* and thus satisfy Caltrans' VMT analysis requirements as well.

Caltrans' TISG states, "Additional future guidance will include the basis for requesting transportation impact analysis that is not based on VMT. This guidance will include a simplified safety analysis approach that reduces risks to all road users and that focuses on multi-modal conflict analysis as well as access management issues." While the final guidance is still being developed, Caltrans has released the "Interim Land Development and Intergovernmental Review (LDIGR) Safety Review Practitioners Guidance"[12]. The proposed project does not take direct access to/from a State facility; however, it is situated approximately one mile from the I-605 Freeway corridor, and is expected to generate net new project trips at nearby ramp intersections. Therefore, the interim safety guidance was reviewed and analyses relevant to the proposed land use development project were identified for inclusion in the transportation assessment.

8.1 Vehicle Miles Traveled Analysis

Caltrans' TISG references the December 2018 *Technical Advisory* prepared by OPR as the basis for its guidance on VMT assessment. For the purpose of this transportation assessment, it is understood that Los Angeles County's adopted VMT analysis methodology is substantially consistent with the recommendations provided in the *Technical Advisory* and thus satisfy Caltrans' VMT analysis requirements as well. Therefore, no separate VMT analysis has been prepared for Caltrans' review of the proposed project.

8.2 Off-Ramp Vehicle Queuing Analysis

The "Interim LD-IGR Safety Review Practitioners Guidance" provides direction on a simplified safety analysis approach that reduces the risk to all road users and that focuses on multi-modal conflict analysis as well as access management issues. District traffic safety staff are encouraged to consider the proposed project's potential influence on safety on state roadways, including the following factors:

- Increased presence of pedestrians and bicyclists

[10] "Vehicle Miles Traveled-Focused Transportation Impact Study Guide", Caltrans, May 20, 2020.
[11] "Technical Advisory on Evaluating Transportation Impacts in CEQA", Governor's Office of Planning and Research, December 2018.
[12] "Traffic Safety Bulletin 20-02-R1: Interim Local Development Intergovernmental Review Safety Review Practitioners Guidance", Caltrans, December 18, 2020.

- Degradation of the walking and bicycling environment and experience
- New pedestrian and bicyclist connection desires
- Multimodal conflict points, especially at intersections and project access locations
- Change in traffic mix such as an increase in bicyclists or pedestrians where features such as shoulders or sidewalks may not exist or are inconsistent with facility design (sidewalks, bike and multi-user paths, multimodal roadways, etc.)
- Increased vehicular speeds
- Transition between free flow and metered flow
- Increased traffic volumes
- Queuing at off-ramps resulting in slow or stopped traffic on the mainline or speed differentials between adjacent lanes
- Queuing exceeding turn pocket length that impedes through-traffic

The proposed Prologis Stewart & Gray Road Warehouse project does not take direct access from a State facility; therefore, the project has not been reviewed for factors pertaining to site access or local roadways. However, the proposed project is expected to generate net new project trips at the I-605 Freeway ramp interchange at Firestone Boulevard (i.e., Int. No. 7 – I-605 Freeway Southbound Ramps/Firestone Boulevard and Int. No. 8 – I-605 Freeway Northbound Ramps-Hoxie Avenue/Firestone Boulevard). Therefore, an analysis of the project's effect on off-ramp queuing was prepared in order to determine if the project would cause, or contribute towards, slowing or stopped traffic on mainline travel lanes resulting in unsafe speed differentials between adjacent lanes.

The off-ramp queueing was analyzed using the Highway Capacity Manual (HCM) operational methodology for signalized intersections. The off-ramp queuing calculations were prepared using the *Synchro 11* software package which implements the HCM operational methodology. A *Synchro* network was created based on existing conditions field reviews at the above noted ramp intersections. In addition, specifics such as traffic volume data, lane configurations, available vehicle storage lengths, crosswalk locations, posted speed limits, traffic signal timing and phasing, etc., were coded to complete the network. The corresponding weekday AM and PM peak hour HCM worksheets for purposes of determining the 95th percentile vehicle queues are contained in *Appendix C*.

The queuing analysis was prepared for the existing, existing with project, and future cumulative without and with project traffic conditions. The corresponding freeway off-ramp intersection approaches were reviewed in terms of expected maximum vehicle queues (i.e., 95th percentile queues) which represent the maximum back of vehicle queues with 95th percentile traffic volumes. The corresponding maximum vehicle queue lengths were then compared to the total ramp storage lengths (i.e., the available storage length as measured from the applicable off-ramp lane striping to the respective off-ramp approach limit lines/merge points). The total queuing for the off-ramp was

determined based on the sum of the maximum vehicle queues for each off-ramp lane. The total ramp storage length was determined based on the sum of the striped storage for all lanes provided at the off-ramp location.

As presented in ***Table 8-1***, adequate storage area is provided at the respective I-605 Freeway northbound and southbound off-ramps to accommodate the forecast 95th percentile queues under existing and future cumulative conditions, both without and with project-generated traffic. Therefore, the proposed project is expected to neither cause nor contribute towards vehicle queuing which extends back into the I-605 Freeway northbound and southbound mainline travel lanes. Therefore, the proposed project is not anticipated to negatively influence safety on the State Highway System.

Table 8-1
SUMMARY OF OFF-RAMP VEHICLE QUEUING [1]

NO.	INTERSECTION	PEAK HOUR	AVAILABLE OFF-RAMP STORAGE [2] (FEET)	EXISTING		EXISTING WITH PROJECT		FUTURE WITHOUT PROJECT		FUTURE WITH PROJECT	
				95th PERCENTILE QUEUE [3] (FEET)	EXCEEDS STORAGE? (YES/NO)	95th PERCENTILE QUEUE [3] (FEET)	EXCEEDS STORAGE? (YES/NO)	95th PERCENTILE QUEUE [3] (FEET)	EXCEEDS STORAGE? (YES/NO)	95th PERCENTILE QUEUE [3] (FEET)	EXCEEDS STORAGE? (YES/NO)
7	I-605 Fwy SB Ramps/ Firestone Boulevard	AM	1,310	838	No	628	No	910	No	695	No
		PM	1,310	798	No	973	No	873	No	1,068	No
8	I-605 Fwy NB Ramps-Hoxie Avenue/ Firestone Boulevard	AM	4,410	2,520	No	2,253	No	2,565	No	2,260	No
		PM	4,410	1,123	No	1,355	No	1,148	No	1,380	No

[1] Queuing analysis based on the Highway Capacity Manual, 6th Edition operational analysis methodologies.
[2] Available storage represents the sum of storage space provided by all off-ramp lanes, as measured via Google Earth, 2022.
[3] The 95th percentile queue is the maximum back of queue with 95th percentile traffic volumes. An average vehicle length of 25 feet (including vehicle separation) was assumed for analysis purposes. The reported queue represents the sum of queues for all off-ramp lanes.

9.0 SUMMARY AND CONCLUSIONS

- ***Project Description*** – The proposed project site is located at 9300, 9350, and 9400 Hall Road and 9301, 9333, and 9399 Stewart & Gray Road in the City of Downey, California. The proposed project consists of the demolition of the existing buildings (totaling approximately 433,000 square feet) and the construction of an industrial concrete tilt building for warehouse/logistics uses totaling 535,685 square feet of building floor area. The new speculative industrial building is intended to be used for logistics and distribution purposes, and specifically as a fulfillment center and for cold storage. The facility will include up to 20,000 square feet of office and 25,000 square feet of mezzanine areas. The project build-out and occupancy year is anticipated by the year 2024.

- ***Project Site Access*** – Vehicular access to the project site is planned to be accommodated by five driveways, including three driveways along Hall Road and two driveways along Stewart & Gray Road. The Hall Road project driveways will accommodate full access (i.e., left and right-turning inbound and outbound movements) for passenger vehicles. However, outbound left-turn movements for trucks will not be permitted at the project's Hall Road driveways. The Stewart & Gray Road project driveways will accommodate full access for both passenger vehicles and trucks. Development of the proposed project would not conflict with the existing pedestrian system or the existing/proposed bicycle system.

- ***Project Parking –*** The proposed project is planned to provide a total of 544 automobile parking spaces and 255 trailer and/or container parking spaces. Application of the parking ratios provided in the City of Downey Municipal Code Section 9712 to the proposed project results in a parking requirement of 670 parking spaces. Thus, the proposed project parking supply would exceed the minimum Code parking requirement.

- ***Project Trip Generation*** – The proposed project is expected to generate a net decrease of 47 PCE-adjusted vehicle trips (73 fewer inbound trips and 26 more outbound trips) during the weekday AM peak hour. During the weekday PM peak hour, the proposed project is expected to generate a net increase of 189 PCE-adjusted vehicle trips (187 more inbound trips and 2 more outbound trips). Over a 24-hour period, the proposed project is forecast to generate a net increase of 167 PCE-adjusted vehicle trips (approximately 84 more inbound trips and 84 more outbound trips) during a typical weekday.

- ***CEQA Vehicle Miles Traveled Analysis*** – Based on the applicable VMT metric for the South County Baseline Area (i.e., VMT per employee), the proposed project is expected to result in a significant VMT impact. With the recommended TDM strategies, including implementation of a marketing strategy to promote commute trip reduction, a ridesharing program, and provision of end-of-trip bicycle facilities such as secure bike parking, showers, and personal lockers, the forecast significant project VMT impact is expected to be reduced to a less than significant level.

- ***Non-CEQA Analysis*** – In consultation with the City of Downey, eight (8) study intersections and three (3) roadway segments were selected for operational evaluation of the proposed project and other cumulative developments in the study area. In addition, the residential area located on Hall Road west of the project site was also evaluated for potential neighborhood traffic impacts. Based on application of the City of Downey's intersection and street segment LOS standards, none of the City of Downey study locations would be found inconsistent with the City's Circulation Element under all analysis conditions. Further, the project is forecast to add only a nominal number of vehicle trips onto the residential portion of Hall Road west of the project site.

- ***Caltrans Transportation Assessment*** – It is understood that Los Angeles County's adopted VMT methodology is consistent with the recommendations provided in the *Technical Advisory* prepared by OPR and thus satisfy Caltrans' VMT analysis requirements as well. Therefore, no separate VMT analysis has been prepared for Caltrans' review of the proposed project. Pursuant to the direction provided in the "Interim LD-IGR Safety Review Practitioners Guidance", an analysis of the project's effect on off-ramp queuing at Int. No. 7 – I-605 Freeway Southbound Ramps/Firestone Boulevard and Int. No. 8 – I-605 Freeway Northbound Ramps-Hoxie Avenue/Firestone Boulevard determined that the proposed project is not expected to cause or contribute towards vehicle queuing which extends back into the respective I-605 Freeway southbound and northbound mainline travel lanes.

APPENDIX A

TRAFFIC, PEDESTRIAN, AND BICYCLE COUNT DATA

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Firestone Boulevard
Weather: Clear

File Name : 01_DNY_Wood_Fire AM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 1

Groups Printed- Total Volume

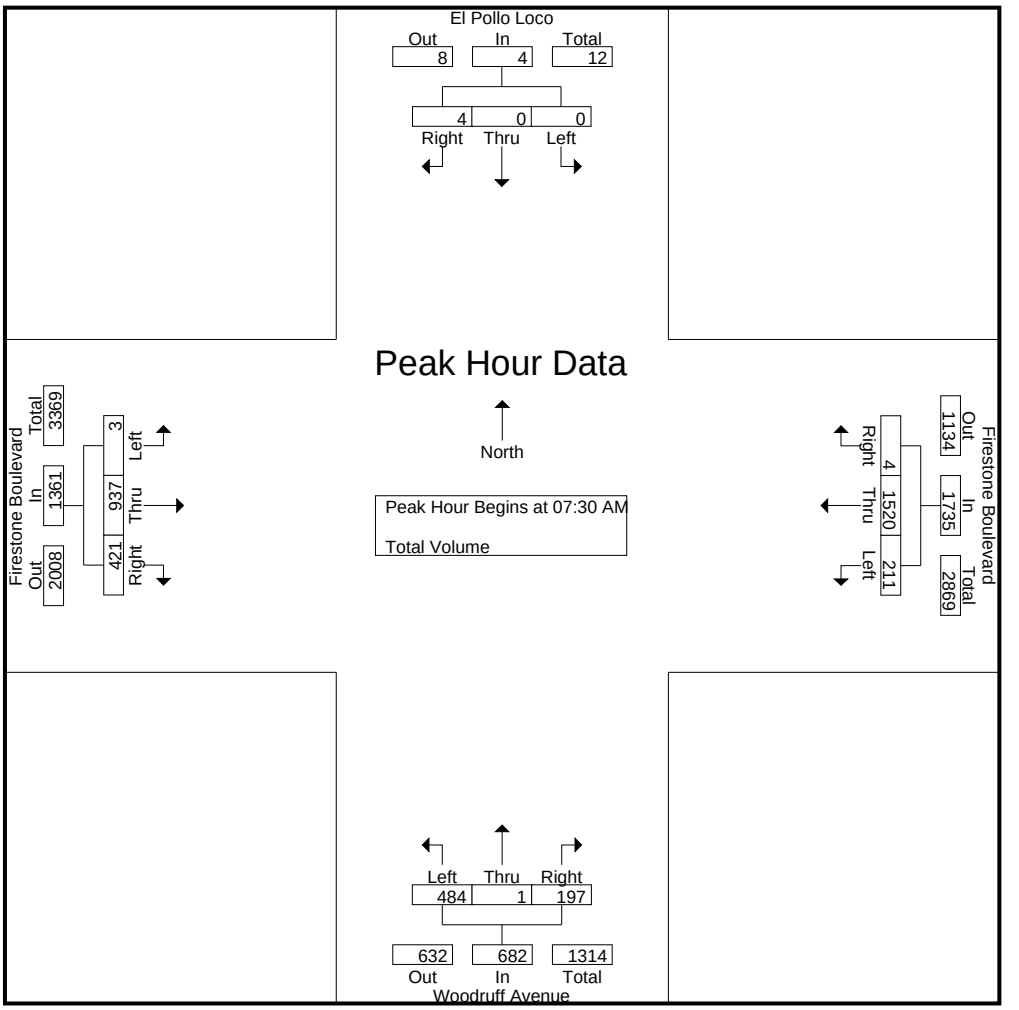
	El Pollo Loco Southbound				Firestone Boulevard Westbound				Woodruff Avenue Northbound				Firestone Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	38	338	0	376	67	0	18	85	0	143	42	185	647
07:15 AM	0	0	1	1	34	388	1	423	151	0	44	195	1	185	88	274	893
07:30 AM	0	0	1	1	41	434	0	475	143	0	51	194	1	213	85	299	969
07:45 AM	0	0	1	1	60	313	1	374	121	0	65	186	1	302	168	471	1032
Total	0	0	4	4	173	1473	2	1648	482	0	178	660	3	843	383	1229	3541
08:00 AM	0	0	1	1	75	319	1	395	101	1	47	149	0	200	109	309	854
08:15 AM	0	0	1	1	35	454	2	491	119	0	34	153	1	222	59	282	927
08:30 AM	0	0	0	0	44	326	0	370	79	0	34	113	2	157	37	196	679
08:45 AM	0	0	1	1	45	303	0	348	78	1	25	104	2	162	70	234	687
Total	0	0	3	3	199	1402	3	1604	377	2	140	519	5	741	275	1021	3147
Grand Total	0	0	7	7	372	2875	5	3252	859	2	318	1179	8	1584	658	2250	6688
Apprch %	0	0	100		11.4	88.4	0.2		72.9	0.2	27		0.4	70.4	29.2		
Total %	0	0	0.1	0.1	5.6	43	0.1	48.6	12.8	0	4.8	17.6	0.1	23.7	9.8	33.6	

	El Pollo Loco Southbound				Firestone Boulevard Westbound				Woodruff Avenue Northbound				Firestone Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	**1**	**1**	41	434	0	475	**143**	0	51	**194**	**1**	213	85	299	969
07:45 AM	0	0	1	1	60	313	1	374	121	0	**65**	186	1	**302**	**168**	**471**	**1032**
08:00 AM	0	0	1	1	**75**	319	1	395	101	**1**	47	149	0	200	109	309	854
08:15 AM	0	0	1	1	35	**454**	**2**	**491**	119	0	34	153	1	222	59	282	927
Total Volume	0	0	4	4	211	1520	4	1735	484	1	197	682	3	937	421	1361	3782
% App. Total	0	0	100		12.2	87.6	0.2		71	0.1	28.9		0.2	68.8	30.9		
PHF	.000	.000	1.00	1.00	.703	.837	.500	.883	.846	.250	.758	.879	.750	.776	.626	.722	.916

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Firestone Boulevard
Weather: Clear

File Name : 01_DNY_Wood_Fire AM
Site Code : 05721620
Start Date : 10/27/2021



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:30 AM				07:15 AM				07:30 AM			
+0 mins.	0	0	**1**	**1**	41	434	0	475	**151**	0	44	**195**	**1**	213	85	299
+15 mins.	0	0	1	1	60	313	1	374	143	0	51	194	1	**302**	**168**	**471**
+30 mins.	0	0	1	1	**75**	319	1	395	121	0	**65**	186	0	200	109	309
+45 mins.	0	0	1	1	35	**454**	**2**	**491**	101	**1**	47	149	1	222	59	282
Total Volume	0	0	4	4	211	1520	4	1735	516	1	207	724	3	937	421	1361
% App. Total	0	0	100		12.2	87.6	0.2		71.3	0.1	28.6		0.2	68.8	30.9	
PHF	.000	.000	1.000	1.000	.703	.837	.500	.883	.854	.250	.796	.928	.750	.776	.626	.722

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Firestone Boulevard
Weather: Clear

File Name : 01_DNY_Wood_Fire PM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 1

Groups Printed- Total Volume

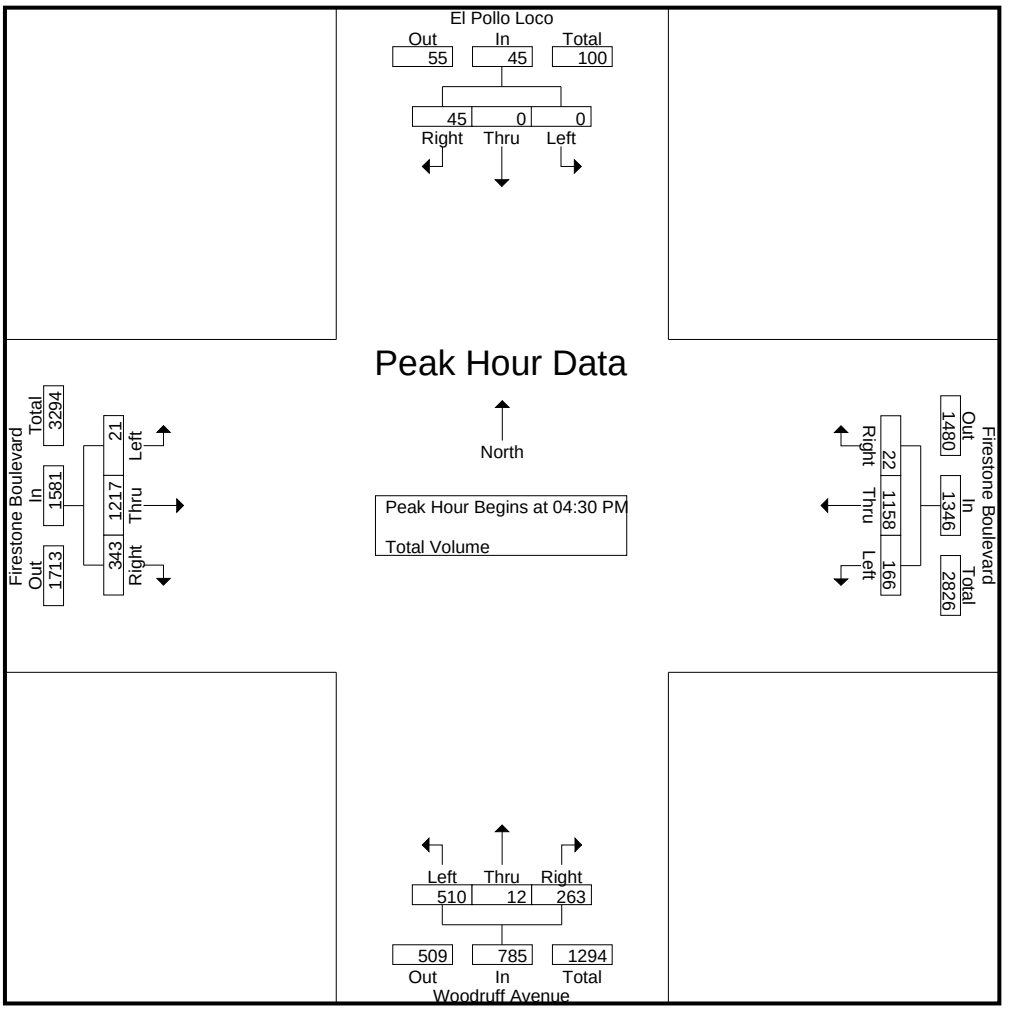
	El Pollo Loco Southbound				Firestone Boulevard Westbound				Woodruff Avenue Northbound				Firestone Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	7	8	45	262	7	314	125	2	71	198	6	299	75	380	900
04:15 PM	0	0	12	12	48	291	3	342	88	3	60	151	8	329	81	418	923
04:30 PM	0	0	13	13	35	265	2	302	131	2	73	206	4	302	92	398	919
04:45 PM	0	0	9	9	45	284	10	339	118	3	65	186	10	294	87	391	925
Total	0	1	41	42	173	1102	22	1297	462	10	269	741	28	1224	335	1587	3667
05:00 PM	0	0	8	8	44	277	1	322	161	5	60	226	5	291	75	371	927
05:15 PM	0	0	15	15	42	332	9	383	100	2	65	167	2	330	89	421	986
05:30 PM	1	0	9	10	42	283	2	327	97	3	59	159	2	311	88	401	897
05:45 PM	0	0	7	7	58	296	6	360	93	6	57	156	8	267	95	370	893
Total	1	0	39	40	186	1188	18	1392	451	16	241	708	17	1199	347	1563	3703
Grand Total	1	1	80	82	359	2290	40	2689	913	26	510	1449	45	2423	682	3150	7370
Apprch %	1.2	1.2	97.6		13.4	85.2	1.5		63	1.8	35.2		1.4	76.9	21.7		
Total %	0	0	1.1	1.1	4.9	31.1	0.5	36.5	12.4	0.4	6.9	19.7	0.6	32.9	9.3	42.7	

	El Pollo Loco Southbound				Firestone Boulevard Westbound				Woodruff Avenue Northbound				Firestone Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	13	13	35	265	2	302	131	2	**73**	206	4	302	**92**	398	919
04:45 PM	0	0	9	9	**45**	284	**10**	339	118	3	65	186	**10**	294	87	391	925
05:00 PM	0	0	8	8	44	277	1	322	**161**	**5**	60	**226**	5	291	75	371	927
05:15 PM	0	0	**15**	**15**	42	**332**	9	**383**	100	2	65	167	2	**330**	89	**421**	**986**
Total Volume	0	0	45	45	166	1158	22	1346	510	12	263	785	21	1217	343	1581	3757
% App. Total	0	0	100		12.3	86	1.6		65	1.5	33.5		1.3	77	21.7		
PHF	.000	.000	.750	.750	.922	.872	.550	.879	.792	.600	.901	.868	.525	.922	.932	.939	.953

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Firestone Boulevard
Weather: Clear

File Name : 01_DNY_Wood_Fire PM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				05:00 PM				04:30 PM				04:00 PM			
+0 mins.	0	0	13	13	44	277	1	322	131	2	**73**	206	6	299	75	380
+15 mins.	0	0	9	9	42	**332**	**9**	**383**	118	3	65	186	8	**329**	81	**418**
+30 mins.	0	0	8	8	42	283	2	327	**161**	**5**	60	**226**	4	302	**92**	398
+45 mins.	0	0	**15**	**15**	**58**	296	6	360	100	2	65	167	**10**	294	87	391
Total Volume	0	0	45	45	186	1188	18	1392	510	12	263	785	28	1224	335	1587
% App. Total	0	0	100		13.4	85.3	1.3		65	1.5	33.5		1.8	77.1	21.1	
PHF	.000	.000	.750	.750	.802	.895	.500	.909	.792	.600	.901	.868	.700	.930	.910	.949

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Hall Road
Weather: Clear

File Name : 02_DNY_Wood_Hall AM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 1

Groups Printed- Total Volume

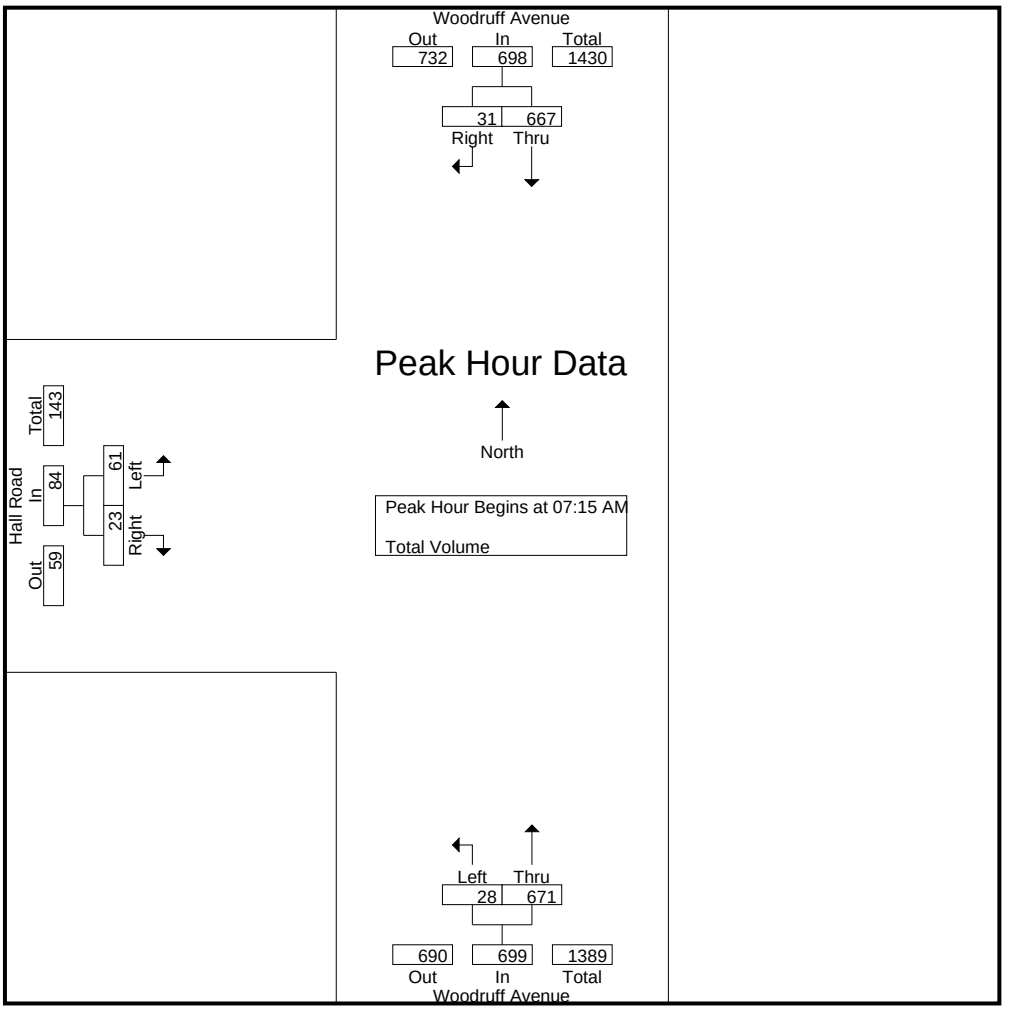
	Woodruff Avenue Southbound			Woodruff Avenue Northbound			Hall Road Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	67	9	76	6	72	78	7	1	8	162
07:15 AM	110	8	118	10	177	187	16	3	19	324
07:30 AM	149	3	152	8	189	197	19	9	28	377
07:45 AM	236	9	245	3	164	167	16	6	22	434
Total	562	29	591	27	602	629	58	19	77	1297
08:00 AM	172	11	183	7	141	148	10	5	15	346
08:15 AM	103	6	109	8	147	155	9	10	19	283
08:30 AM	74	11	85	12	103	115	6	11	17	217
08:45 AM	95	11	106	12	102	114	6	9	15	235
Total	444	39	483	39	493	532	31	35	66	1081
Grand Total	1006	68	1074	66	1095	1161	89	54	143	2378
Apprch %	93.7	6.3		5.7	94.3		62.2	37.8		
Total %	42.3	2.9	45.2	2.8	46	48.8	3.7	2.3	6	

	Woodruff Avenue Southbound			Woodruff Avenue Northbound			Hall Road Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	110	8	118	**10**	177	187	16	3	19	324
07:30 AM	149	3	152	8	**189**	**197**	**19**	**9**	**28**	377
07:45 AM	**236**	9	**245**	3	164	167	16	6	22	**434**
08:00 AM	172	**11**	183	7	141	148	10	5	15	346
Total Volume	667	31	698	28	671	699	61	23	84	1481
% App. Total	95.6	4.4		4	96		72.6	27.4		
PHF	.707	.705	.712	.700	.888	.887	.803	.639	.750	.853

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Hall Road
Weather: Clear

File Name : 02_DNY_Wood_Hall AM
Site Code : 05721620
Start Date : 10/27/2021



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	110	8	118	**10**	177	187	16	3	19
+15 mins.	149	3	152	8	**189**	**197**	**19**	**9**	**28**
+30 mins.	**236**	9	**245**	3	164	167	16	6	22
+45 mins.	172	**11**	183	7	141	148	10	5	15
Total Volume	667	31	698	28	671	699	61	23	84
% App. Total	95.6	4.4		4	96		72.6	27.4	
PHF	.707	.705	.712	.700	.888	.887	.803	.639	.750

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Hall Road
Weather: Clear

File Name : 02_DNY_Wood_Hall PM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 1

Groups Printed- Total Volume

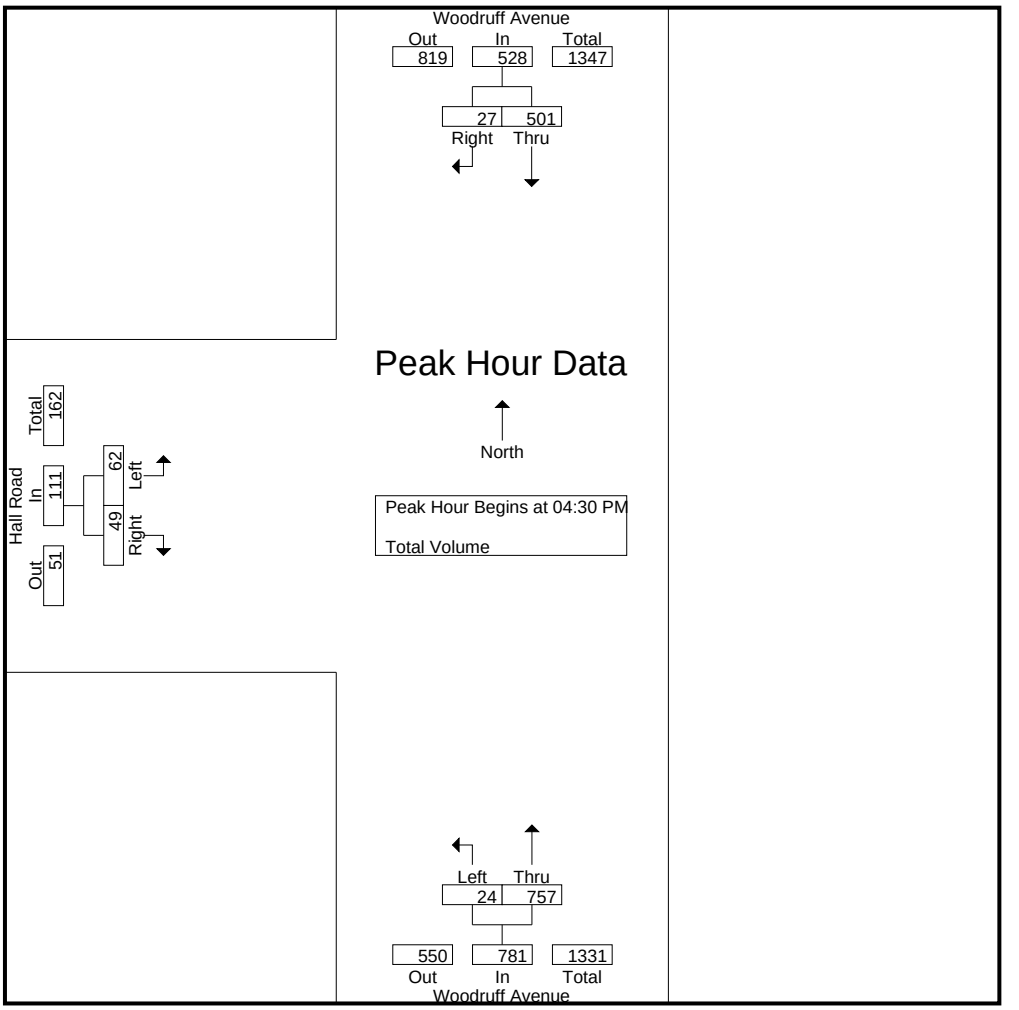
	Woodruff Avenue Southbound			Woodruff Avenue Northbound			Hall Road Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	114	10	124	8	177	185	11	7	18	327
04:15 PM	112	11	123	4	145	149	10	8	18	290
04:30 PM	123	8	131	8	211	219	18	20	38	388
04:45 PM	134	7	141	2	169	171	16	10	26	338
Total	483	36	519	22	702	724	55	45	100	1343
05:00 PM	120	2	122	10	212	222	13	12	25	369
05:15 PM	124	10	134	4	165	169	15	7	22	325
05:30 PM	117	12	129	5	141	146	11	3	14	289
05:45 PM	127	18	145	5	151	156	12	8	20	321
Total	488	42	530	24	669	693	51	30	81	1304
Grand Total	971	78	1049	46	1371	1417	106	75	181	2647
Apprch %	92.6	7.4		3.2	96.8		58.6	41.4		
Total %	36.7	2.9	39.6	1.7	51.8	53.5	4	2.8	6.8	

	Woodruff Avenue Southbound			Woodruff Avenue Northbound			Hall Road Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	123	8	131	8	211	219	**18**	**20**	**38**	**388**
04:45 PM	**134**	7	**141**	2	169	171	16	10	26	338
05:00 PM	120	2	122	**10**	**212**	**222**	13	12	25	369
05:15 PM	124	**10**	134	4	165	169	15	7	22	325
Total Volume	501	27	528	24	757	781	62	49	111	1420
% App. Total	94.9	5.1		3.1	96.9		55.9	44.1		
PHF	.935	.675	.936	.600	.893	.880	.861	.613	.730	.915

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Hall Road
Weather: Clear

File Name : 02_DNY_Wood_Hall PM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			04:30 PM			04:30 PM		
+0 mins.	120	2	122	8	211	219	**18**	**20**	**38**
+15 mins.	124	10	134	2	169	171	16	10	26
+30 mins.	117	12	129	**10**	**212**	**222**	13	12	25
+45 mins.	**127**	**18**	**145**	4	165	169	15	7	22
Total Volume	488	42	530	24	757	781	62	49	111
% App. Total	92.1	7.9		3.1	96.9		55.9	44.1	
PHF	.961	.583	.914	.600	.893	.880	.861	.613	.730

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Downey	PROJECT #:	SC2606
Thu, Jul 9, 20	NORTH & SOUTH:	Woodruff	LOCATION #:	2
	EAST & WEST:	Stewart & Gray	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Woodruff			SOUTHBOUND Woodruff			EASTBOUND Stewart & Gray			WESTBOUND Stewart & Gray				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	9	35	8	1	24	7	5	56	9	9	33	7	203	0	0	0	0	0
	7:15 AM	10	31	10	1	31	12	10	61	11	12	32	9	230	0	0	0	0	0
	7:30 AM	15	36	14	4	41	11	11	85	22	14	39	5	297	0	0	0	0	0
	7:45 AM	13	44	13	2	63	20	8	60	24	17	52	12	328	0	0	0	0	0
	8:00 AM	16	53	15	2	39	16	8	59	16	8	41	8	281	0	0	0	0	0
	8:15 AM	16	43	12	2	38	15	3	62	12	12	39	5	259	0	0	0	0	0
	8:30 AM	10	49	24	0	35	20	17	60	22	14	44	9	304	0	0	0	0	0
	8:45 AM	15	46	18	5	38	10	11	77	20	7	42	9	298	0	1	0	0	1
	VOLUMES	104	337	114	17	309	111	73	520	136	93	322	64	2,200	0	1	0	0	1
	APPROACH %	19%	61%	21%	4%	71%	25%	10%	71%	19%	19%	67%	13%						
	APP/DEPART	555	/	475	437	/	538	729	/	650	479	/	537	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	55	189	64	6	175	71	36	241	74	51	176	34	1,172					
	APPROACH %	18%	61%	21%	2%	69%	28%	10%	69%	21%	20%	67%	13%						
	PEAK HR FACTOR		0.917			0.741			0.886			0.806		0.893					
	APP/DEPART	308	/	259	252	/	300	351	/	311	261	/	302	0					
PM	4:00 PM	26	99	23	3	76	33	32	132	20	24	76	14	558	2	0	0	0	2
	4:15 PM	28	79	24	3	76	35	32	101	30	13	77	13	511	0	0	0	0	0
	4:30 PM	34	99	30	3	77	54	32	129	23	16	74	9	580	0	0	0	0	0
	4:45 PM	23	93	27	4	81	37	35	87	29	17	84	13	530	0	0	0	0	0
	5:00 PM	22	101	22	5	70	47	39	130	28	15	93	8	580	0	0	0	0	0
	5:15 PM	24	81	17	3	88	25	32	109	22	13	99	17	530	0	0	0	0	0
	5:30 PM	28	65	18	6	89	41	36	91	22	7	68	11	482	0	0	0	0	0
	5:45 PM	21	75	17	4	74	33	36	106	23	13	73	8	483	0	0	0	0	0
	VOLUMES	206	692	178	31	631	305	274	885	197	118	644	93	4,254	2	0	0	0	2
	APPROACH %	19%	64%	17%	3%	65%	32%	20%	65%	15%	14%	75%	11%						
	APP/DEPART	1,076	/	1,059	967	/	948	1,356	/	1,094	855	/	1,153	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	103	374	96	15	316	163	138	455	102	61	350	47	2,220					
	APPROACH %	18%	65%	17%	3%	64%	33%	20%	65%	15%	13%	76%	10%						
	PEAK HR FACTOR		0.879			0.922			0.882			0.888		0.957					
	APP/DEPART	573	/	559	494	/	479	695	/	566	458	/	616	0					

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	2	1	1	4	0	0	0	1	1	0	2	1	0	3
	7:15 AM	1	2	0	0	3	0	0	0	0	0	1	2	0	0	3
	7:30 AM	2	1	2	5	10	1	0	2	4	7	1	1	0	1	3
	7:45 AM	1	0	1	4	6	1	0	1	3	5	0	0	0	1	1
	8:00 AM	0	0	1	4	5	0	0	1	3	4	0	0	0	1	1
	8:15 AM	3	0	3	1	7	3	0	2	0	5	0	0	1	1	2
	8:30 AM	0	0	0	2	2	0	0	0	2	2	0	0	0	0	0
	8:45 AM	0	0	0	2	2	0	0	0	2	2	0	0	0	0	0
	TOTAL	7	5	8	19	39	5	0	6	15	26	2	5	2	4	13
PM	4:00 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
	4:15 PM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2
	4:30 PM	2	0	2	1	5	2	0	1	0	3	0	0	1	1	2
	4:45 PM	2	1	0	0	3	0	0	0	0	0	2	1	0	0	3
	5:00 PM	2	2	0	3	7	1	0	0	3	4	1	2	0	0	3
	5:15 PM	0	0	1	3	4	0	0	0	3	3	0	0	1	0	1
	5:30 PM	0	1	2	1	4	0	0	1	1	2	0	1	1	0	2
	5:45 PM	0	0	0	2	2	0	0	0	2	2	0	0	0	0	0
	TOTAL	8	4	5	11	28	3	0	2	9	14	5	4	3	2	14

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Downey	PROJECT #:	SC2606
Thu, Jul 9, 20	NORTH & SOUTH:	Woodruff	LOCATION #:	1
	EAST & WEST:	Washburn	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Woodruff)			SOUTHBOUND (Woodruff)			EASTBOUND (Washburn)			WESTBOUND (Washburn)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 2	ER 0	WL 0	WT 1	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	5	56	19	5	27	1	6	5	14	8	4	3	153	0	0	0	0	0
	7:15 AM	4	55	21	6	36	6	10	2	13	12	1	1	167	0	0	0	0	0
	7:30 AM	8	62	17	6	43	9	14	3	12	9	0	4	187	0	0	0	0	0
	7:45 AM	11	79	31	6	56	12	8	8	10	14	2	5	242	0	0	0	0	0
	8:00 AM	4	74	22	4	56	8	8	8	13	11	0	7	215	0	0	0	0	0
	8:15 AM	12	52	24	4	45	8	10	7	11	11	2	10	196	0	0	0	0	0
	8:30 AM	5	71	15	4	60	9	7	3	5	10	1	2	192	0	0	0	0	0
	8:45 AM	5	67	11	6	46	2	9	2	8	11	2	3	172	0	0	0	0	0
	VOLUMES	54	516	160	41	369	55	72	38	86	86	12	35	1,524	0	0	0	0	0
	APPROACH %	7%	71%	22%	9%	79%	12%	37%	19%	44%	65%	9%	26%						
	APP/DEPART	730	/	623	465	/	541	196	/	239	133	/	121	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	32	276	92	18	217	37	33	26	39	46	5	24	845					
	APPROACH %	8%	69%	23%	7%	80%	14%	34%	27%	40%	61%	7%	32%						
	PEAK HR FACTOR		0.826			0.919			0.845			0.815		0.873					
	APP/DEPART	400	/	333	272	/	302	98	/	136	75	/	74	0					
PM	4:00 PM	6	120	15	4	107	18	12	2	14	27	4	7	336	0	0	0	0	0
	4:15 PM	14	113	20	8	101	15	10	2	10	15	5	10	323	0	0	0	0	0
	4:30 PM	5	113	13	4	129	11	15	1	20	23	3	7	344	0	0	0	0	0
	4:45 PM	11	124	7	3	115	11	12	3	11	9	1	8	315	0	0	0	0	0
	5:00 PM	9	120	9	6	114	14	9	2	19	15	3	17	337	0	0	0	0	0
	5:15 PM	12	110	7	7	121	10	7	2	15	17	4	4	316	0	0	0	0	0
	5:30 PM	18	82	11	4	115	11	13	2	13	10	4	9	292	1	0	0	0	1
	5:45 PM	13	88	11	4	105	6	7	0	14	19	2	4	273	0	0	0	0	0
	VOLUMES	88	870	93	40	907	96	85	14	116	135	26	66	2,536	1	0	0	0	1
	APPROACH %	8%	83%	9%	4%	87%	9%	40%	7%	54%	59%	11%	29%						
	APP/DEPART	1,051	/	1,021	1,043	/	1,159	215	/	147	227	/	209	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	39	470	49	21	459	51	46	8	60	62	12	42	1,319					
	APPROACH %	7%	84%	9%	4%	86%	10%	40%	7%	53%	53%	10%	36%						
	PEAK HR FACTOR		0.949			0.922			0.792			0.829		0.959					
	APP/DEPART	558	/	558	531	/	581	114	/	78	116	/	102	0					

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	1	3	4	0	0	0	3	3	0	0	1	0	1
	7:15 AM	1	0	0	1	2	1	0	0	1	2	0	0	0	0	0
	7:30 AM	0	0	1	2	3	0	0	1	2	3	0	0	0	0	0
	7:45 AM	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
	8:00 AM	0	0	1	1	2	0	0	1	0	1	0	0	0	1	1
	8:15 AM	1	0	1	1	3	0	0	0	0	0	1	0	1	1	3
	8:30 AM	0	0	1	2	3	0	0	1	2	3	0	0	0	0	0
	8:45 AM	1	0	0	1	2	0	0	0	1	1	1	0	0	0	1
	TOTAL	3	0	5	12	20	1	0	3	10	14	2	0	2	2	6
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	4:30 PM	1	0	2	1	4	1	0	0	1	2	0	0	2	0	2
	4:45 PM	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
	5:00 PM	1	0	0	1	2	0	0	0	1	1	1	0	0	0	1
	5:15 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
	5:30 PM	1	1	2	1	5	0	1	2	1	4	1	0	0	0	1
	5:45 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
	TOTAL	4	1	5	5	15	1	1	3	4	9	3	0	2	1	6

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Imperial Highway
Weather: Clear

File Name : 03_DNY_Wood_Imperial AM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 1

Groups Printed- Total Volume

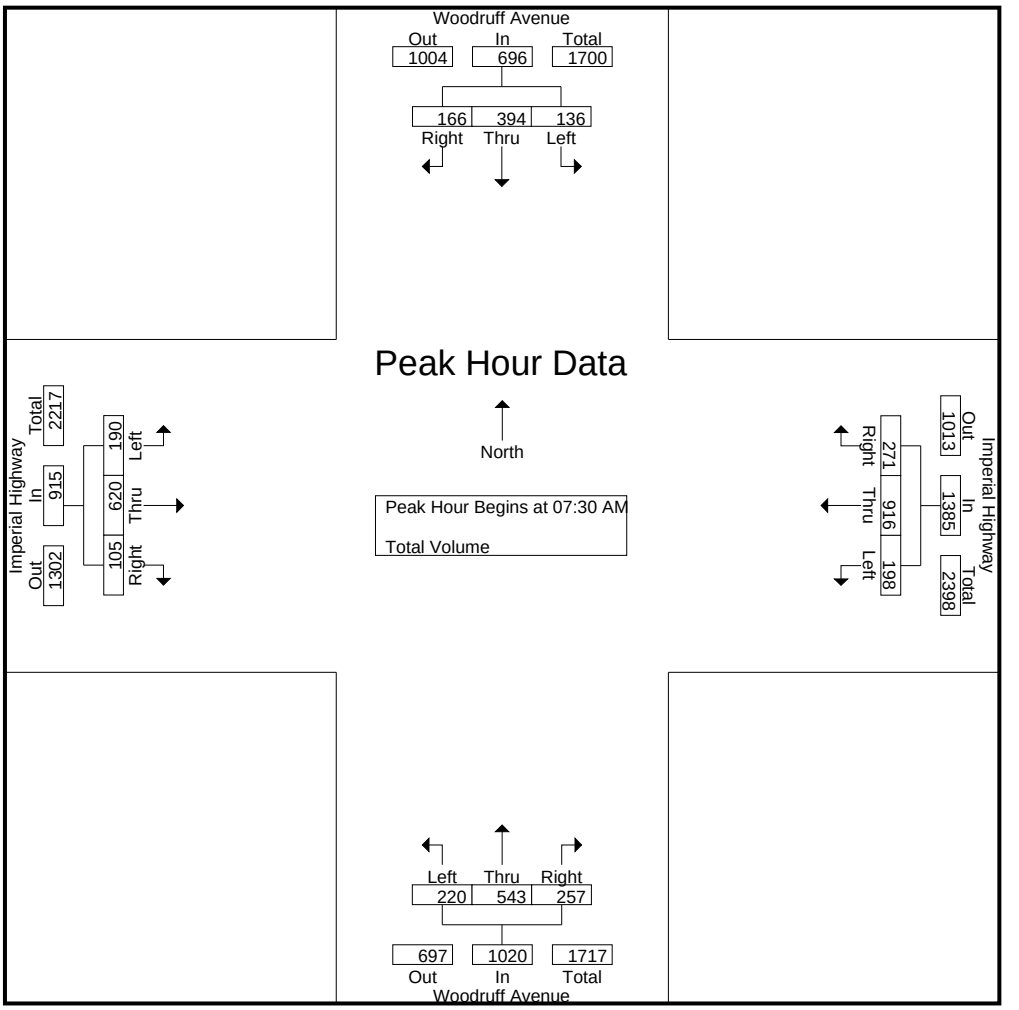
	Woodruff Avenue Southbound				Imperial Highway Westbound				Woodruff Avenue Northbound				Imperial Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	12	34	14	60	24	178	47	249	20	85	32	137	29	146	5	180	626
07:15 AM	31	58	25	114	48	207	59	314	39	161	55	255	42	149	18	209	892
07:30 AM	27	82	35	144	35	226	53	314	52	143	62	257	49	177	25	251	966
07:45 AM	36	135	42	213	39	251	81	371	65	140	66	271	54	136	27	217	1072
Total	106	309	116	531	146	862	240	1248	176	529	215	920	174	608	75	857	3556
08:00 AM	34	114	52	200	59	208	75	342	42	110	56	208	50	165	37	252	1002
08:15 AM	39	63	37	139	65	231	62	358	61	150	73	284	37	142	16	195	976
08:30 AM	25	51	25	101	44	191	52	287	39	105	53	197	44	165	16	225	810
08:45 AM	25	66	27	118	36	185	48	269	42	89	44	175	23	117	25	165	727
Total	123	294	141	558	204	815	237	1256	184	454	226	864	154	589	94	837	3515
Grand Total	229	603	257	1089	350	1677	477	2504	360	983	441	1784	328	1197	169	1694	7071
Apprch %	21	55.4	23.6		14	67	19		20.2	55.1	24.7		19.4	70.7	10		
Total %	3.2	8.5	3.6	15.4	4.9	23.7	6.7	35.4	5.1	13.9	6.2	25.2	4.6	16.9	2.4	24	

	Woodruff Avenue Southbound				Imperial Highway Westbound				Woodruff Avenue Northbound				Imperial Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	27	82	35	144	35	226	53	314	52	143	62	257	49	**177**	25	251	966
07:45 AM	36	**135**	42	**213**	39	**251**	**81**	**371**	**65**	140	66	271	**54**	136	27	217	**1072**
08:00 AM	34	114	**52**	200	59	208	75	342	42	110	56	208	50	165	**37**	**252**	1002
08:15 AM	**39**	63	37	139	**65**	231	62	358	61	**150**	**73**	**284**	37	142	16	195	976
Total Volume	136	394	166	696	198	916	271	1385	220	543	257	1020	190	620	105	915	4016
% App. Total	19.5	56.6	23.9		14.3	66.1	19.6		21.6	53.2	25.2		20.8	67.8	11.5		
PHF	.872	.730	.798	.817	.762	.912	.836	.933	.846	.905	.880	.898	.880	.876	.709	.908	.937

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Imperial Highway
Weather: Clear

File Name : 03_DNY_Wood_Imperial AM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:15 AM			
+0 mins.	27	82	35	144	35	226	53	314	52	143	62	257	42	149	18	209
+15 mins.	36	**135**	42	**213**	39	**251**	**81**	**371**	**65**	140	66	271	49	**177**	25	251
+30 mins.	34	114	**52**	200	59	208	75	342	42	110	56	208	**54**	136	27	217
+45 mins.	**39**	63	37	139	**65**	231	62	358	61	**150**	**73**	**284**	50	165	**37**	**252**
Total Volume	136	394	166	696	198	916	271	1385	220	543	257	1020	195	627	107	929
% App. Total	19.5	56.6	23.9		14.3	66.1	19.6		21.6	53.2	25.2		21	67.5	11.5	
PHF	.872	.730	.798	.817	.762	.912	.836	.933	.846	.905	.880	.898	.903	.886	.723	.922

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Imperial Highway
Weather: Clear

File Name : 03_DNY_Wood_Imperial PM
Site Code : 05721620
Start Date : 10/27/2021
Page No : 1

Groups Printed- Total Volume

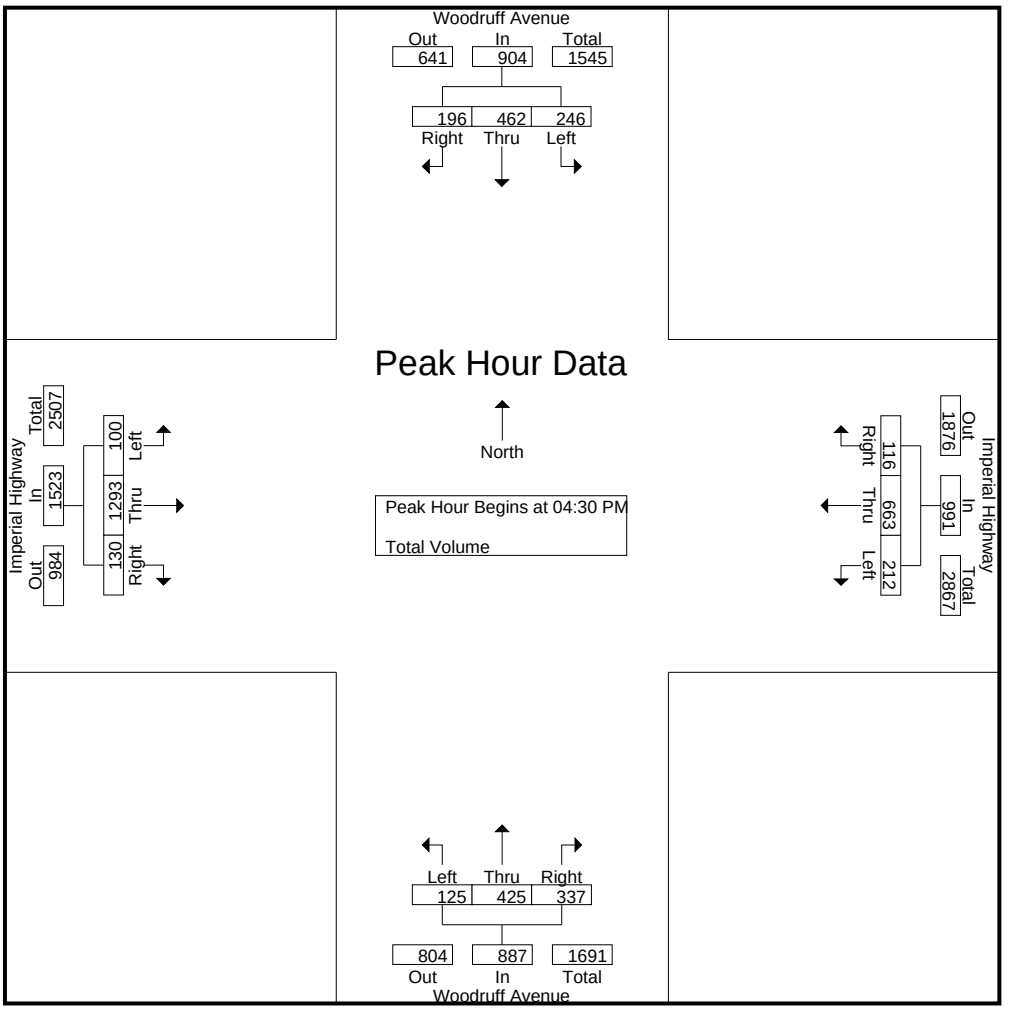
	Woodruff Avenue Southbound				Imperial Highway Westbound				Woodruff Avenue Northbound				Imperial Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	55	96	46	197	64	168	41	273	38	108	80	226	25	283	28	336	1032
04:15 PM	60	100	38	198	47	142	37	226	29	105	82	216	32	290	24	346	986
04:30 PM	57	124	57	238	56	175	19	250	25	92	75	192	18	342	25	385	1065
04:45 PM	74	122	46	242	40	129	29	198	34	114	83	231	30	310	37	377	1048
Total	246	442	187	875	207	614	126	947	126	419	320	865	105	1225	114	1444	4131
05:00 PM	65	117	51	233	63	206	43	312	33	112	84	229	28	338	34	400	1174
05:15 PM	50	99	42	191	53	153	25	231	33	107	95	235	24	303	34	361	1018
05:30 PM	57	71	23	151	62	200	34	296	32	92	65	189	24	291	26	341	977
05:45 PM	24	94	30	148	46	169	60	275	24	106	54	184	26	251	23	300	907
Total	196	381	146	723	224	728	162	1114	122	417	298	837	102	1183	117	1402	4076
Grand Total	442	823	333	1598	431	1342	288	2061	248	836	618	1702	207	2408	231	2846	8207
Apprch %	27.7	51.5	20.8		20.9	65.1	14		14.6	49.1	36.3		7.3	84.6	8.1		
Total %	5.4	10	4.1	19.5	5.3	16.4	3.5	25.1	3	10.2	7.5	20.7	2.5	29.3	2.8	34.7	

	Woodruff Avenue Southbound				Imperial Highway Westbound				Woodruff Avenue Northbound				Imperial Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	57	**124**	**57**	238	56	175	19	250	25	92	75	192	18	**342**	25	385	1065
04:45 PM	**74**	122	46	**242**	40	129	29	198	**34**	**114**	83	231	**30**	310	**37**	377	1048
05:00 PM	65	117	51	233	**63**	**206**	**43**	**312**	33	112	84	229	28	338	34	**400**	**1174**
05:15 PM	50	99	42	191	53	153	25	231	33	107	**95**	**235**	24	303	34	361	1018
Total Volume	246	462	196	904	212	663	116	991	125	425	337	887	100	1293	130	1523	4305
% App. Total	27.2	51.1	21.7		21.4	66.9	11.7		14.1	47.9	38		6.6	84.9	8.5		
PHF	.831	.931	.860	.934	.841	.805	.674	.794	.919	.932	.887	.944	.833	.945	.878	.952	.917

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Downey
N/S: Woodruff Avenue
E/W: Imperial Highway
Weather: Clear

File Name : 03_DNY_Wood_Imperial PM
Site Code : 05721620
Start Date : 10/27/2021



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				05:00 PM				04:30 PM				04:30 PM			
+0 mins.	60	100	38	198	**63**	**206**	43	**312**	25	92	75	192	18	**342**	25	385
+15 mins.	57	**124**	**57**	238	53	153	25	231	**34**	**114**	83	231	**30**	310	**37**	377
+30 mins.	**74**	122	46	**242**	62	200	34	296	33	112	84	229	28	338	34	**400**
+45 mins.	65	117	51	233	46	169	**60**	275	33	107	**95**	**235**	24	303	34	361
Total Volume	256	463	192	911	224	728	162	1114	125	425	337	887	100	1293	130	1523
% App. Total	28.1	50.8	21.1		20.1	65.4	14.5		14.1	47.9	38		6.6	84.9	8.5	
PHF	.865	.933	.842	.941	.889	.883	.675	.893	.919	.932	.887	.944	.833	.945	.878	.952

ITM Peak Hour Summary

Prepared by:

NDS

Stewart and Gray Rd and Firestone Blvd , Norwalk

Date: 2/23/2016

Day: Tuesday

Project #: Historical

City: Norwalk

AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	445 PM

Peak Hour Summary

Southbound Approach

Stewart and Gray Rd

Lanes	0.5	0.5	1		
AM	35	29	108	22	AM
NOON	0	0	0	0	NOON
PM	40	27	78	43	PM

Eastbound Approach

Firestone Blvd

Lanes	AM	NOON	PM
	1558	0	1284
2	0	0	4
0.5	866	0	1142
0.5	25	0	61
Lanes	AM	NOON	PM

CONTROL

Signalized

Westbound Approach

AM	NOON	PM	Lanes
22	0	38	0
1523	0	1244	3
377	0	344	2
1567	0	1900	
AM	NOON	PM	

Northbound Approach

AM	431	0	0	593 AM
NOON	0	0	0	0 NOON
PM	432	0	1	680 PM
		0	2	0 Lanes

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON	NONE	NONE
PM	4:00 PM	6:00 PM

Total Ins & Outs

North Leg		
172	22	AM
0	0	NOON
145	43	PM

West Leg			East Leg		
AM	NOON	PM			
1558	0	1284	1922	0	1626
891	0	1207	1567	0	1900
			AM	NOON	PM

South Leg		
AM	431	593
NOON	0	0
PM	432	681

Total Volume Per Leg

North Leg	
194	AM
0	NOON
188	PM

West Leg			East Leg		
AM	NOON	PM			
2449	0	2491	3489	0	3526
			AM	NOON	PM

South Leg	
AM	1024
NOON	0
PM	1113

ITM Peak Hour Summary

Prepared by:

NDS

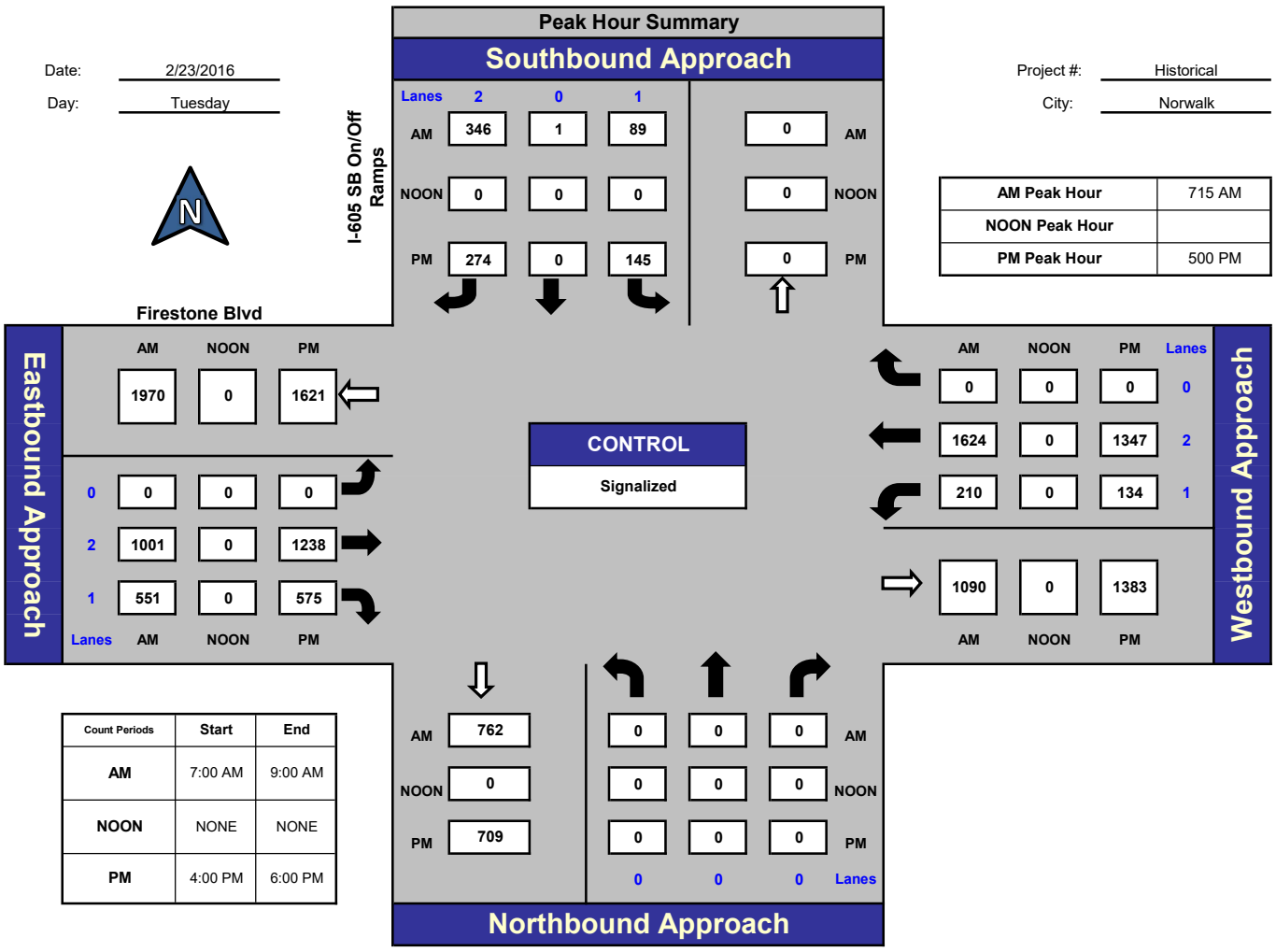
I-605 SB On/Off Ramps and Firestone Blvd , Norwalk

Date: 2/23/2016

Day: Tuesday

Project #: Historical

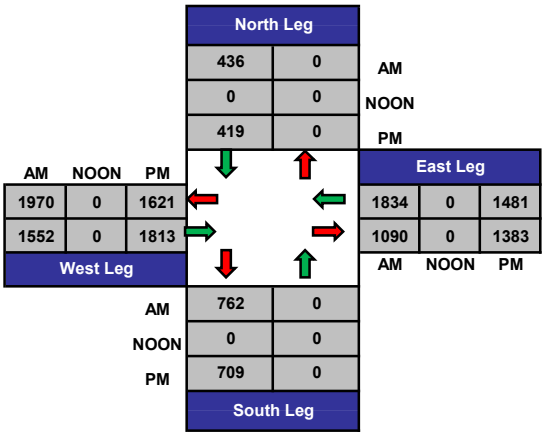
City: Norwalk



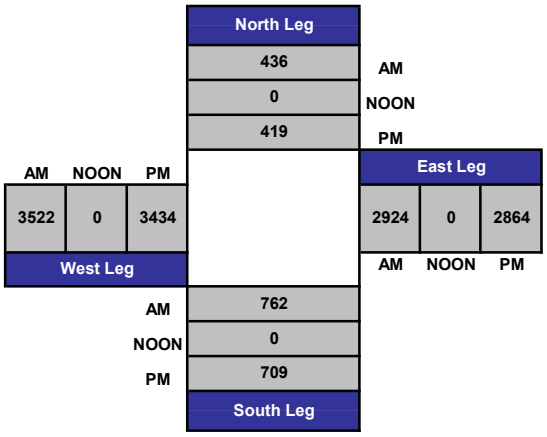
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON	NONE	NONE
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

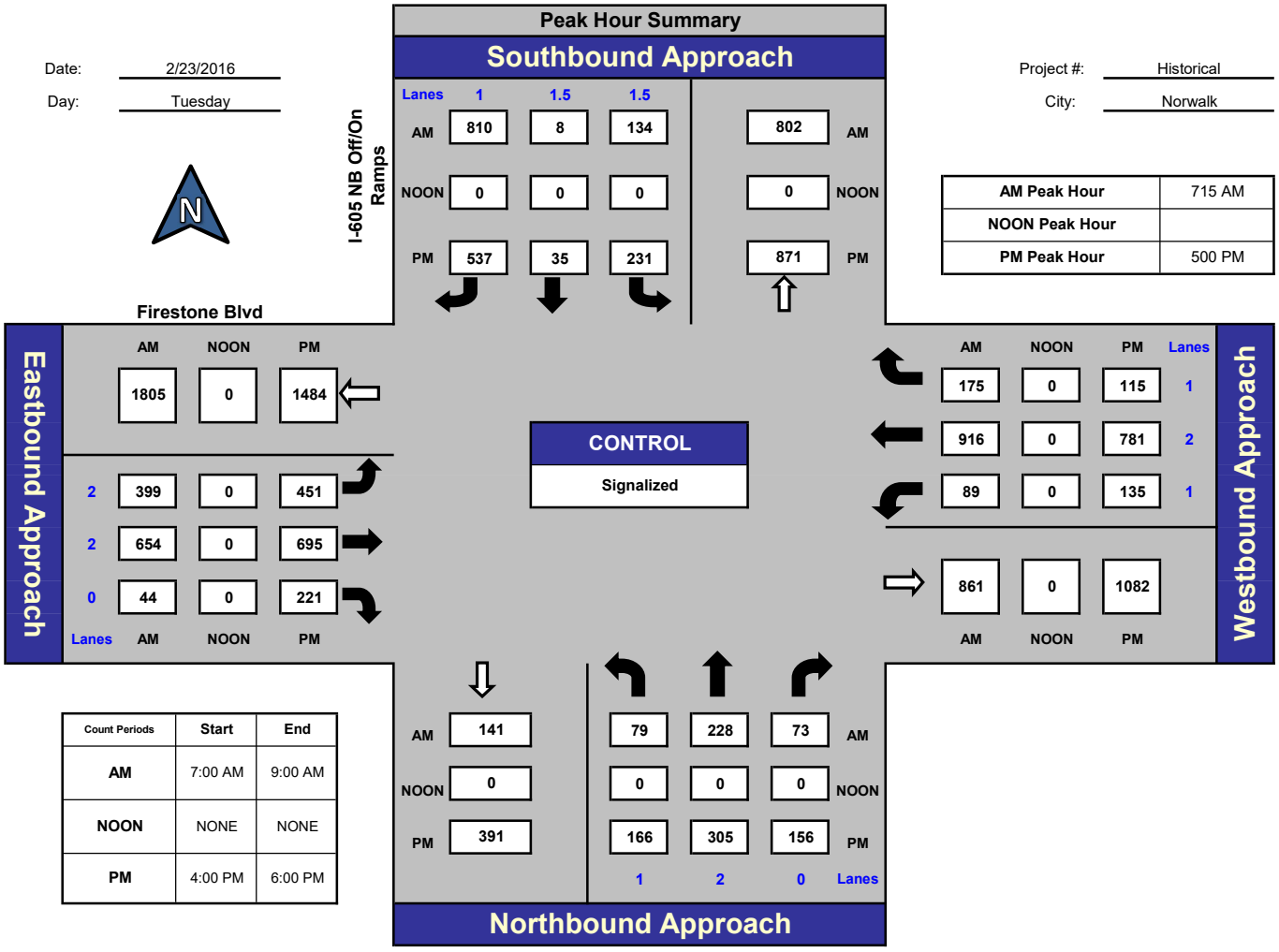
I-605 NB Off/On Ramps and Firestone Blvd , Norwalk

Date: 2/23/2016

Day: Tuesday

Project #: Historical

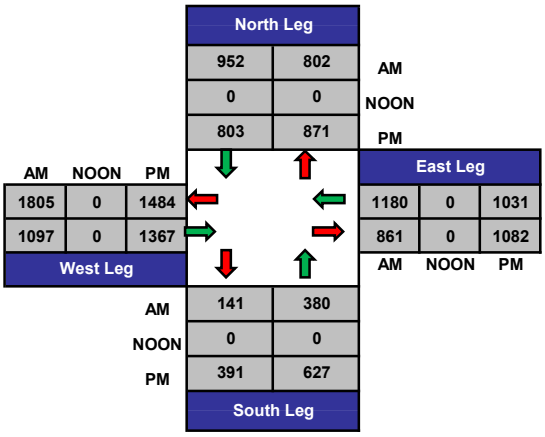
City: Norwalk



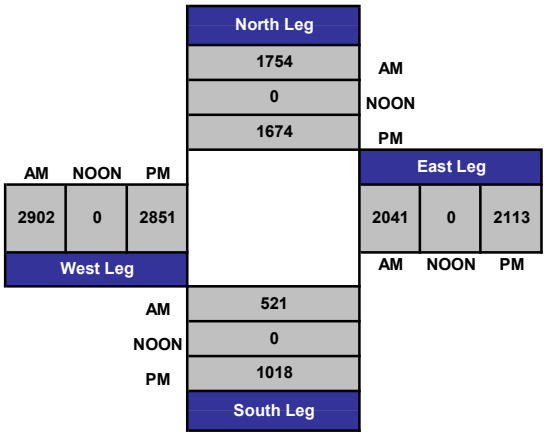
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON	NONE	NONE
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Woodruff Avenue
B/ Hall Road - Stewart and Gray Road
48 Hour Directional Classification Count

DNY002
Site Code: 057-21620

Northbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/17/21	1	5	52	2	6	0	0	1	2	0	0	0	0	69
01:00	0	2	37	1	1	0	0	0	0	0	0	0	0	41
02:00	0	0	12	0	5	0	0	1	1	0	0	0	0	19
03:00	0	0	12	2	2	0	0	0	0	0	0	0	0	16
04:00	0	3	21	1	4	0	0	0	0	0	0	0	0	29
05:00	1	4	57	4	14	1	0	0	0	1	0	0	0	82
06:00	1	8	144	17	30	2	0	15	2	0	0	0	**1**	220
07:00	**11**	**32**	**300**	**34**	51	4	2	**70**	3	7	**1**	0	0	**515**
08:00	5	32	255	24	55	**5**	1	56	**9**	**9**	0	0	0	451
09:00	10	21	212	16	48	2	2	33	1	1	1	0	0	347
10:00	2	22	228	10	51	3	**5**	28	3	1	0	0	0	353
11:00	10	17	268	12	**65**	3	3	34	3	5	0	0	1	421
12 PM	10	37	356	11	55	2	1	50	0	5	0	**1**	0	528
13:00	3	32	316	**21**	**66**	2	1	47	**4**	3	0	1	**1**	497
14:00	3	42	357	10	61	**5**	1	55	2	4	**2**	0	0	542
15:00	5	31	351	13	58	2	**4**	47	1	**7**	0	0	0	519
16:00	**13**	31	**398**	19	64	2	2	**67**	2	4	0	0	0	**602**
17:00	7	**45**	384	14	47	0	1	63	0	3	0	1	1	566
18:00	7	18	299	9	50	0	1	38	0	5	0	0	0	427
19:00	7	25	174	5	24	1	3	13	0	0	0	0	0	252
20:00	3	14	167	3	22	1	1	22	1	2	0	0	0	236
21:00	2	8	134	3	11	0	0	15	2	1	0	0	0	176
22:00	1	9	90	1	6	0	0	2	0	0	0	0	0	109
23:00	0	5	54	0	6	1	0	1	0	0	0	0	0	67
Total	102	443	4678	232	802	36	28	658	36	58	4	3	4	7084
Percent	1.4%	6.3%	66.0%	3.3%	11.3%	0.5%	0.4%	9.3%	0.5%	0.8%	0.1%	0.0%	0.1%	
AM Peak	07:00	07:00	07:00	07:00	11:00	08:00	10:00	07:00	08:00	08:00	07:00		06:00	07:00
Vol.	11	32	300	34	65	5	5	70	9	9	1		1	515
PM Peak	16:00	17:00	16:00	13:00	13:00	14:00	15:00	16:00	13:00	15:00	14:00	12:00	13:00	16:00
Vol.	13	45	398	21	66	5	4	67	4	7	2	1	1	602

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Woodruff Avenue
B/ Hall Road - Stewart and Gray Road
48 Hour Directional Classification Count

DNY002
Site Code: 057-21620

Northbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/18/21	1	1	26	5	3	0	0	0	1	0	0	0	0	37
01:00	0	2	24	0	2	0	0	0	0	0	0	0	0	28
02:00	0	2	10	0	5	0	0	0	2	0	0	0	0	19
03:00	0	4	14	1	2	0	0	0	0	0	0	0	0	21
04:00	0	3	32	3	4	0	0	0	0	0	0	0	0	42
05:00	3	4	43	2	15	2	0	3	1	0	**1**	0	0	74
06:00	6	17	123	14	33	4	0	16	1	1	1	0	0	216
07:00	14	29	**333**	**25**	**60**	**9**	**3**	**56**	2	**12**	1	**2**	**1**	**547**
08:00	**15**	**31**	259	25	48	3	3	51	**5**	9	0	1	0	450
09:00	3	10	212	17	43	1	2	27	0	3	0	0	1	319
10:00	9	19	207	18	55	3	2	35	5	4	0	0	0	357
11:00	6	22	270	22	55	5	1	42	4	4	0	0	0	431
12 PM	5	**93**	241	9	40	2	2	41	**4**	2	**2**	0	0	441
13:00	9	28	272	24	44	3	2	52	2	4	0	**1**	**1**	442
14:00	**14**	39	312	**28**	**69**	3	**3**	**62**	4	**8**	1	1	0	544
15:00	7	30	**390**	26	63	**4**	2	56	2	7	0	0	0	**587**
16:00	9	32	345	13	57	1	1	62	1	4	0	0	0	525
17:00	12	26	362	13	55	1	1	57	1	4	0	0	0	532
18:00	3	19	272	4	44	2	1	47	0	0	0	0	0	392
19:00	2	17	223	3	26	1	0	33	1	2	0	0	1	309
20:00	1	15	168	0	21	2	1	22	0	0	1	1	0	232
21:00	3	7	116	1	20	2	1	10	0	0	0	0	0	160
22:00	1	5	84	1	12	0	0	2	0	1	0	0	0	106
23:00	2	2	47	2	5	0	0	1	1	0	0	0	0	60
Total	125	457	4385	256	781	48	25	675	37	65	7	6	4	6871
Percent	1.8%	6.7%	63.8%	3.7%	11.4%	0.7%	0.4%	9.8%	0.5%	0.9%	0.1%	0.1%	0.1%	
AM Peak	08:00	08:00	07:00	07:00	07:00	07:00	07:00	07:00	08:00	07:00	05:00	07:00	07:00	07:00
Vol.	15	31	333	25	60	9	3	56	5	12	1	2	1	547
PM Peak	14:00	12:00	15:00	14:00	14:00	15:00	14:00	14:00	12:00	14:00	12:00	13:00	13:00	15:00
Vol.	14	93	390	28	69	4	3	62	4	8	2	1	1	587
Grand Total	227	900	9063	488	1583	84	53	1333	73	123	11	9	8	13955
Percent	1.6%	6.4%	64.9%	3.5%	11.3%	0.6%	0.4%	9.6%	0.5%	0.9%	0.1%	0.1%	0.1%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Woodruff Avenue
B/ Hall Road - Stewart and Gray Road
48 Hour Directional Classification Count

DNY002
Site Code: 057-21620

Southbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/17/21	0	28	6	0	0	1	1	0	1	0	0	0	0	37
01:00	0	32	0	0	0	0	0	0	0	0	0	0	0	32
02:00	0	5	1	0	0	1	0	0	0	0	0	0	0	7
03:00	0	12	2	0	0	0	0	1	0	0	0	0	0	15
04:00	0	31	6	1	1	0	0	0	0	0	0	0	0	39
05:00	0	72	14	2	6	0	0	0	3	0	0	0	0	97
06:00	1	129	28	2	10	3	0	**3**	0	0	0	0	0	176
07:00	**9**	**487**	**73**	4	8	0	**2**	2	1	0	**1**	0	0	**587**
08:00	4	360	47	3	**21**	3	0	2	2	0	0	0	0	442
09:00	0	229	27	1	16	**4**	2	0	4	0	0	**1**	0	284
10:00	6	273	49	**6**	16	4	1	1	**6**	0	0	0	0	362
11:00	6	285	55	1	12	3	1	3	5	**1**	0	0	0	372
12 PM	**8**	412	**72**	3	17	5	2	2	**4**	**1**	0	0	0	526
13:00	8	453	67	**6**	13	**7**	1	3	0	0	0	0	0	**558**
14:00	5	**468**	50	2	16	4	3	**5**	2	0	0	0	0	555
15:00	2	443	54	1	**19**	7	1	2	3	0	0	0	0	532
16:00	2	415	49	3	14	4	**4**	3	4	0	0	0	0	498
17:00	7	445	49	2	11	3	0	0	0	0	0	0	0	517
18:00	3	435	52	0	4	1	0	0	0	0	0	0	0	495
19:00	2	326	36	2	4	1	0	0	0	1	0	0	0	372
20:00	3	226	22	0	3	0	0	0	1	0	0	0	0	255
21:00	0	155	10	1	1	0	0	0	2	0	0	0	0	169
22:00	0	86	3	0	1	0	0	0	1	0	0	0	0	91
23:00	1	48	6	0	0	0	0	0	0	0	0	0	0	55
Total	67	5855	778	40	193	51	18	27	39	3	1	1	0	7073
Percent	0.9%	82.8%	11.0%	0.6%	2.7%	0.7%	0.3%	0.4%	0.6%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	10:00	08:00	09:00	07:00	06:00	10:00	11:00	07:00	09:00		07:00
Vol.	9	487	73	6	21	4	2	3	6	1	1	1		587
PM Peak	12:00	14:00	12:00	13:00	15:00	13:00	16:00	14:00	12:00	12:00				13:00
Vol.	8	468	72	6	19	7	4	5	4	1				558

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Woodruff Avenue
B/ Hall Road - Stewart and Gray Road
48 Hour Directional Classification Count

DNY002
Site Code: 057-21620

Southbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/18/21	0	15	1	1	2	0	0	0	0	0	0	0	0	19
01:00	0	19	4	0	0	0	0	0	0	0	0	0	0	23
02:00	0	6	5	0	0	0	0	0	0	0	0	0	0	11
03:00	0	12	3	0	2	0	0	1	0	0	0	0	0	18
04:00	0	24	10	1	6	0	0	0	0	0	0	0	0	41
05:00	0	49	15	1	6	1	0	1	1	0	0	0	0	74
06:00	0	99	32	2	12	0	0	1	3	0	0	0	0	149
07:00	**2**	**346**	**111**	1	**39**	0	**1**	**10**	3	0	**1**	0	0	**514**
08:00	1	277	95	2	33	3	1	1	2	0	0	0	0	415
09:00	2	198	61	5	24	2	0	3	3	0	0	0	0	298
10:00	0	185	73	0	25	**5**	0	6	**5**	**1**	0	0	0	300
11:00	2	261	86	**7**	29	3	0	7	2	0	0	0	0	397
12 PM	4	303	87	**4**	30	**6**	1	7	4	0	0	0	0	446
13:00	0	310	92	2	20	5	1	3	3	**2**	0	0	0	438
14:00	3	367	119	2	35	3	0	2	4	0	0	0	0	535
15:00	5	**466**	**165**	2	**50**	5	0	**11**	3	0	0	0	0	**707**
16:00	**7**	378	96	2	30	4	**2**	4	**5**	1	0	0	0	529
17:00	1	383	96	2	22	4	0	9	2	1	0	0	0	520
18:00	2	274	82	2	21	1	1	6	0	0	0	0	0	389
19:00	1	223	58	0	12	0	0	4	0	0	0	0	0	298
20:00	1	129	33	1	13	0	0	3	2	0	0	0	0	182
21:00	0	112	23	0	8	0	0	0	0	0	0	0	0	143
22:00	0	90	8	0	3	0	0	0	2	0	0	0	0	103
23:00	0	55	8	0	1	0	0	0	0	0	0	0	0	64
Total	31	4581	1363	37	423	42	7	79	44	5	1	0	0	6613
Percent	0.5%	69.3%	20.6%	0.6%	6.4%	0.6%	0.1%	1.2%	0.7%	0.1%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	11:00	07:00	10:00	07:00	07:00	10:00	10:00	07:00			07:00
Vol.	2	346	111	7	39	5	1	10	5	1	1			514
PM Peak	16:00	15:00	15:00	12:00	15:00	12:00	16:00	15:00	16:00	13:00				15:00
Vol.	7	466	165	4	50	6	2	11	5	2				707
Grand Total	98	10436	2141	77	616	93	25	106	83	8	2	1	0	13686
Percent	0.7%	76.3%	15.6%	0.6%	4.5%	0.7%	0.2%	0.8%	0.6%	0.1%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Woodruff Avenue
B/ Hall Road - Stewart and Gray Road
48 Hour Directional Classification Count

DNY002
Site Code: 057-21620

Northbound, Southbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/17/21	1	33	58	2	6	1	1	1	3	0	0	0	0	106
01:00	0	34	37	1	1	0	0	0	0	0	0	0	0	73
02:00	0	5	13	0	5	1	0	1	1	0	0	0	0	26
03:00	0	12	14	2	2	0	0	1	0	0	0	0	0	31
04:00	0	34	27	2	5	0	0	0	0	0	0	0	0	68
05:00	1	76	71	6	20	1	0	0	3	1	0	0	0	179
06:00	2	137	172	19	40	5	0	18	2	0	0	0	**1**	396
07:00	**20**	**519**	**373**	**38**	59	4	4	**72**	4	7	**2**	0	0	**1102**
08:00	9	392	302	27	76	**8**	1	58	**11**	**9**	0	0	0	893
09:00	10	250	239	17	64	6	4	33	5	1	1	**1**	0	631
10:00	8	295	277	16	67	7	**6**	29	9	1	0	0	0	715
11:00	16	302	323	13	**77**	6	4	37	8	6	0	0	1	793
12 PM	**18**	449	428	14	72	7	3	52	4	6	0	**1**	0	1054
13:00	11	485	383	**27**	**79**	**9**	2	50	4	3	0	1	**1**	1055
14:00	8	**510**	407	12	77	9	4	60	4	4	**2**	0	0	1097
15:00	7	474	405	14	77	9	5	49	4	**7**	0	0	0	1051
16:00	15	446	**447**	22	78	6	**6**	**70**	**6**	4	0	0	0	**1100**
17:00	14	490	433	16	58	3	1	63	0	3	0	1	1	1083
18:00	10	453	351	9	54	1	1	38	0	5	0	0	0	922
19:00	9	351	210	7	28	2	3	13	0	1	0	0	0	624
20:00	6	240	189	3	25	1	1	22	2	2	0	0	0	491
21:00	2	163	144	4	12	0	0	15	4	1	0	0	0	345
22:00	1	95	93	1	7	0	0	2	1	0	0	0	0	200
23:00	1	53	60	0	6	1	0	1	0	0	0	0	0	122
Total	169	6298	5456	272	995	87	46	685	75	61	5	4	4	14157
Percent	1.2%	44.5%	38.5%	1.9%	7.0%	0.6%	0.3%	4.8%	0.5%	0.4%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	07:00	11:00	08:00	10:00	07:00	08:00	08:00	07:00	09:00	06:00	07:00
Vol.	20	519	373	38	77	8	6	72	11	9	2	1	1	1102
PM Peak	12:00	14:00	16:00	13:00	13:00	13:00	16:00	16:00	16:00	15:00	14:00	12:00	13:00	16:00
Vol.	18	510	447	27	79	9	6	70	6	7	2	1	1	1100

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Woodruff Avenue
B/ Hall Road - Stewart and Gray Road
48 Hour Directional Classification Count

DNY002
Site Code: 057-21620

Northbound, Southbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/18/21	1	16	27	6	5	0	0	0	1	0	0	0	0	56
01:00	0	21	28	0	2	0	0	0	0	0	0	0	0	51
02:00	0	8	15	0	5	0	0	0	2	0	0	0	0	30
03:00	0	16	17	1	4	0	0	1	0	0	0	0	0	39
04:00	0	27	42	4	10	0	0	0	0	0	0	0	0	83
05:00	3	53	58	3	21	3	0	4	2	0	1	0	0	148
06:00	6	116	155	16	45	4	0	17	4	1	1	0	0	365
07:00	**16**	**375**	**444**	26	**99**	**9**	**4**	**66**	5	**12**	**2**	**2**	**1**	**1061**
08:00	16	308	354	27	81	6	4	52	7	9	0	1	0	865
09:00	5	208	273	22	67	3	2	30	3	3	0	0	1	617
10:00	9	204	280	18	80	8	2	41	**10**	5	0	0	0	657
11:00	8	283	356	**29**	84	8	1	49	6	4	0	0	0	828
12 PM	9	396	328	13	70	8	**3**	48	**8**	2	**2**	0	0	887
13:00	9	338	364	26	64	8	3	55	5	6	0	**1**	**1**	880
14:00	**17**	406	431	**30**	104	6	3	64	8	**8**	1	1	0	1079
15:00	12	**496**	**555**	28	**113**	**9**	2	**67**	5	7	0	0	0	**1294**
16:00	16	410	441	15	87	5	3	66	6	5	0	0	0	1054
17:00	13	409	458	15	77	5	1	66	3	5	0	0	0	1052
18:00	5	293	354	6	65	3	2	53	0	0	0	0	0	781
19:00	3	240	281	3	38	1	0	37	1	2	0	0	1	607
20:00	2	144	201	1	34	2	1	25	2	0	1	1	0	414
21:00	3	119	139	1	28	2	1	10	0	0	0	0	0	303
22:00	1	95	92	1	15	0	0	2	2	1	0	0	0	209
23:00	2	57	55	2	6	0	0	1	1	0	0	0	0	124
Total	156	5038	5748	293	1204	90	32	754	81	70	8	6	4	13484
Percent	1.2%	37.4%	42.6%	2.2%	8.9%	0.7%	0.2%	5.6%	0.6%	0.5%	0.1%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	11:00	07:00	07:00	07:00	07:00	10:00	07:00	07:00	07:00	07:00	07:00
Vol.	16	375	444	29	99	9	4	66	10	12	2	2	1	1061
PM Peak	14:00	15:00	15:00	14:00	15:00	15:00	12:00	15:00	12:00	14:00	12:00	13:00	13:00	15:00
Vol.	17	496	555	30	113	9	3	67	8	8	2	1	1	1294
Grand Total	325	11336	11204	565	2199	177	78	1439	156	131	13	10	8	27641
Percent	1.2%	41.0%	40.5%	2.0%	8.0%	0.6%	0.3%	5.2%	0.6%	0.5%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Hall Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY001
Site Code: 057-21620

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/27/21	0	4	2	0	0	0	0	0	0	0	0	0	0	6
01:00	0	2	1	0	1	1	0	0	0	0	0	0	0	5
02:00	0	3	0	0	0	1	0	0	0	0	0	0	0	4
03:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04:00	2	14	3	2	1	1	0	0	0	0	0	0	0	23
05:00	1	14	3	2	1	2	0	0	1	0	0	0	0	24
06:00	3	20	6	**6**	1	2	0	**1**	0	0	0	0	0	39
07:00	2	**54**	23	1	4	2	**1**	1	1	**1**	0	0	0	90
08:00	**8**	40	**28**	4	**8**	**5**	0	1	1	1	0	0	0	**96**
09:00	4	27	22	2	4	2	0	0	2	0	0	0	**1**	64
10:00	2	26	14	5	5	4	0	1	4	0	0	0	0	61
11:00	0	32	12	1	5	2	0	0	**6**	0	**1**	0	0	59
12 PM	2	50	21	1	10	**2**	0	**3**	3	0	0	0	0	92
13:00	2	43	15	**2**	8	1	0	0	4	0	0	0	0	75
14:00	1	42	**25**	2	**11**	0	**1**	2	2	0	0	0	0	86
15:00	**12**	**78**	23	1	4	2	0	1	2	**1**	0	0	0	**124**
16:00	4	74	16	1	5	0	0	1	**5**	0	0	0	0	106
17:00	0	48	8	1	9	0	0	0	3	0	0	0	0	69
18:00	1	23	9	0	0	0	0	0	1	0	0	0	0	34
19:00	0	41	9	0	1	0	0	0	1	0	0	0	0	52
20:00	2	23	6	0	1	0	0	0	0	0	0	0	0	32
21:00	0	12	2	0	1	0	0	0	2	0	0	0	0	17
22:00	0	3	2	0	0	0	0	0	0	0	0	0	0	5
23:00	0	4	2	0	0	0	0	0	1	1	0	0	0	8
Total	46	679	252	31	80	27	2	11	39	4	1	0	1	1173
Percent	3.9%	57.9%	21.5%	2.6%	6.8%	2.3%	0.2%	0.9%	3.3%	0.3%	0.1%	0.0%	0.1%	
AM Peak	08:00	07:00	08:00	06:00	08:00	08:00	07:00	06:00	11:00	07:00	11:00		09:00	08:00
Vol.	8	54	28	6	8	5	1	1	6	1	1		1	96
PM Peak	15:00	15:00	14:00	13:00	14:00	12:00	14:00	12:00	16:00	15:00				15:00
Vol.	12	78	25	2	11	2	1	3	5	1				124

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Hall Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY001
Site Code: 057-21620

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/28/21	0	2	0	0	0	1	0	0	1	0	0	0	0	4
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	2	1	2	0	**2**	0	0	0	0	0	0	0	7
03:00	1	4	5	0	2	0	0	0	0	0	0	0	0	12
04:00	1	13	4	1	1	1	0	**2**	0	0	0	0	0	23
05:00	4	10	3	3	1	2	0	0	0	0	0	0	0	23
06:00	0	23	12	**4**	2	1	0	0	1	0	0	0	0	43
07:00	**7**	**65**	**26**	2	**8**	0	0	0	0	0	0	0	0	**108**
08:00	2	37	15	4	5	1	**1**	0	0	0	0	0	0	65
09:00	1	22	12	2	3	1	0	0	**10**	0	0	0	0	51
10:00	2	21	14	4	7	0	0	2	1	**1**	0	0	0	52
11:00	5	27	22	0	5	2	0	0	3	0	0	0	0	64
12 PM	1	30	11	2	7	1	**1**	**2**	3	0	0	0	0	58
13:00	1	45	**26**	**3**	3	1	1	0	**6**	0	0	0	0	86
14:00	0	44	19	3	5	1	0	1	1	0	0	0	0	74
15:00	**5**	**70**	16	1	**11**	**4**	0	2	2	0	0	0	0	**111**
16:00	2	59	19	1	10	0	0	0	0	0	0	0	0	91
17:00	0	55	13	0	5	1	0	1	3	0	0	0	0	78
18:00	0	30	6	0	4	1	0	1	3	0	0	0	0	45
19:00	0	29	7	0	2	0	0	0	0	0	0	0	0	38
20:00	0	26	3	0	0	0	0	0	0	0	0	0	0	29
21:00	1	16	1	0	2	0	0	0	0	0	0	0	0	20
22:00	0	18	1	0	0	0	0	0	1	0	0	0	0	20
23:00	0	12	2	0	1	0	0	0	1	0	0	0	0	16
Total	33	661	238	32	84	20	3	11	36	1	0	0	0	1119
Percent	2.9%	59.1%	21.3%	2.9%	7.5%	1.8%	0.3%	1.0%	3.2%	0.1%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	06:00	07:00	02:00	08:00	04:00	09:00	10:00				07:00
Vol.	7	65	26	4	8	2	1	2	10	1				108
PM Peak	15:00	15:00	13:00	13:00	15:00	15:00	12:00	12:00	13:00					15:00
Vol.	5	70	26	3	11	4	1	2	6					111
Grand Total	79	1340	490	63	164	47	5	22	75	5	1	0	1	2292
Percent	3.4%	58.5%	21.4%	2.7%	7.2%	2.1%	0.2%	1.0%	3.3%	0.2%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Hall Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY001
Site Code: 057-21620

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/27/21	0	5	1	0	0	1	0	0	0	0	0	0	0	7
01:00	0	4	0	0	0	1	0	0	0	0	0	0	0	5
02:00	0	1	0	0	0	0	0	0	1	0	0	0	0	2
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	2	14	3	0	1	0	0	0	0	0	0	0	0	20
05:00	2	17	8	0	0	2	0	0	0	0	0	0	0	29
06:00	6	**55**	9	1	1	4	0	0	0	0	0	0	0	76
07:00	2	35	8	2	4	**5**	0	**2**	1	**1**	0	0	0	60
08:00	10	52	16	2	2	5	0	0	0	0	0	0	0	**87**
09:00	4	35	**18**	**4**	**5**	5	0	0	**2**	0	0	0	0	73
10:00	**12**	42	16	1	5	5	0	0	2	0	0	0	0	83
11:00	5	31	15	3	5	4	0	2	1	0	0	0	0	66
12 PM	**5**	37	18	1	4	4	0	0	**3**	0	0	0	0	72
13:00	5	**49**	10	2	5	2	**1**	0	0	0	0	0	0	74
14:00	3	49	16	**3**	5	**6**	0	0	1	0	0	0	0	**83**
15:00	3	43	**19**	2	4	4	0	0	0	0	0	0	0	75
16:00	4	35	12	1	**7**	1	1	0	1	**1**	0	0	0	63
17:00	1	46	5	1	2	1	0	0	0	0	0	0	0	56
18:00	0	39	6	0	4	1	0	0	0	0	0	0	0	50
19:00	2	47	5	0	1	2	0	0	0	0	0	0	0	57
20:00	0	24	4	0	0	0	0	0	0	0	0	0	0	28
21:00	4	17	4	0	1	2	0	0	1	0	0	0	0	29
22:00	2	17	4	0	0	0	0	0	0	0	0	0	0	23
23:00	2	8	3	0	0	0	0	0	2	0	0	0	0	15
Total	74	703	200	23	56	55	2	4	15	2	0	0	0	1134
Percent	6.5%	62.0%	17.6%	2.0%	4.9%	4.9%	0.2%	0.4%	1.3%	0.2%	0.0%	0.0%	0.0%	
AM Peak	10:00	06:00	09:00	09:00	09:00	07:00		07:00	09:00	07:00				08:00
Vol.	12	55	18	4	5	5		2	2	1				87
PM Peak	12:00	13:00	15:00	14:00	16:00	14:00	13:00		12:00	16:00				14:00
Vol.	5	49	19	3	7	6	1		3	1				83

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Hall Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY001
Site Code: 057-21620

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/28/21	0	3	1	0	0	0	0	0	1	0	0	0	0	5
01:00	0	3	0	0	0	0	0	0	1	0	0	0	0	4
02:00	0	2	1	0	0	0	0	0	1	0	0	0	0	4
03:00	3	5	1	0	0	0	0	0	0	0	0	0	0	9
04:00	2	15	3	0	0	0	0	0	0	0	0	0	0	20
05:00	2	11	4	1	2	1	0	**1**	0	0	0	0	0	22
06:00	5	44	14	1	1	4	0	0	1	0	0	0	0	70
07:00	4	49	17	2	5	0	0	0	0	0	0	0	0	77
08:00	**9**	**52**	**23**	1	5	2	0	0	**2**	0	0	0	0	**94**
09:00	4	44	9	**6**	**9**	**7**	**1**	0	0	0	0	0	0	80
10:00	7	28	13	1	6	1	0	0	2	0	0	0	0	58
11:00	5	26	7	0	8	6	0	1	1	0	0	0	0	54
12 PM	4	34	11	2	5	1	0	0	**3**	0	0	0	0	60
13:00	5	38	14	**4**	2	1	0	1	2	0	0	0	0	67
14:00	2	45	10	0	2	2	**1**	**2**	0	0	0	0	0	64
15:00	2	44	15	3	3	**6**	0	0	1	0	0	0	0	74
16:00	**9**	**46**	**22**	2	**6**	4	0	1	0	0	0	0	0	**90**
17:00	1	44	6	0	1	1	0	0	0	0	0	0	0	53
18:00	3	41	9	0	4	3	0	0	0	0	0	0	0	60
19:00	0	42	6	0	0	0	0	0	0	0	0	0	0	48
20:00	1	29	3	0	1	1	0	0	0	0	0	0	0	35
21:00	0	22	3	0	1	0	0	0	0	0	0	0	0	26
22:00	0	20	5	0	1	0	0	0	1	0	0	0	0	27
23:00	0	6	3	0	1	2	0	0	0	0	0	0	0	12
Total	68	693	200	23	63	42	2	6	16	0	0	0	0	1113
Percent	6.1%	62.3%	18.0%	2.1%	5.7%	3.8%	0.2%	0.5%	1.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	09:00	09:00	09:00	09:00	05:00	08:00					08:00
Vol.	9	52	23	6	9	7	1	1	2					94
PM Peak	16:00	16:00	16:00	13:00	16:00	15:00	14:00	14:00	12:00					16:00
Vol.	9	46	22	4	6	6	1	2	3					90
Grand Total	142	1396	400	46	119	97	4	10	31	2	0	0	0	2247
Percent	6.3%	62.1%	17.8%	2.0%	5.3%	4.3%	0.2%	0.4%	1.4%	0.1%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Hall Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY001
Site Code: 057-21620

Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/27/21	0	9	3	0	0	1	0	0	0	0	0	0	0	13
01:00	0	6	1	0	1	2	0	0	0	0	0	0	0	10
02:00	0	4	0	0	0	1	0	0	1	0	0	0	0	6
03:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
04:00	4	28	6	2	2	1	0	0	0	0	0	0	0	43
05:00	3	31	11	2	1	4	0	0	1	0	0	0	0	53
06:00	9	75	15	**7**	2	6	0	1	0	0	0	0	0	115
07:00	4	89	31	3	8	7	**1**	**3**	2	**2**	0	0	0	150
08:00	**18**	**92**	**44**	6	**10**	**10**	0	1	1	1	0	0	0	**183**
09:00	8	62	40	6	9	7	0	0	4	0	0	0	**1**	137
10:00	14	68	30	6	10	9	0	1	6	0	0	0	0	144
11:00	5	63	27	4	10	6	0	2	**7**	0	**1**	0	0	125
12 PM	7	87	39	2	14	**6**	0	**3**	**6**	0	0	0	0	164
13:00	7	92	25	4	13	3	**1**	0	4	0	0	0	0	149
14:00	4	91	41	**5**	**16**	6	1	2	3	0	0	0	0	169
15:00	**15**	**121**	**42**	3	8	6	0	1	2	**1**	0	0	0	**199**
16:00	8	109	28	2	12	1	1	1	6	1	0	0	0	169
17:00	1	94	13	2	11	1	0	0	3	0	0	0	0	125
18:00	1	62	15	0	4	1	0	0	1	0	0	0	0	84
19:00	2	88	14	0	2	2	0	0	1	0	0	0	0	109
20:00	2	47	10	0	1	0	0	0	0	0	0	0	0	60
21:00	4	29	6	0	2	2	0	0	3	0	0	0	0	46
22:00	2	20	6	0	0	0	0	0	0	0	0	0	0	28
23:00	2	12	5	0	0	0	0	0	3	1	0	0	0	23
Total	120	1382	452	54	136	82	4	15	54	6	1	0	1	2307
Percent	5.2%	59.9%	19.6%	2.3%	5.9%	3.6%	0.2%	0.7%	2.3%	0.3%	0.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	06:00	08:00	08:00	07:00	07:00	11:00	07:00	11:00		09:00	08:00
Vol.	18	92	44	7	10	10	1	3	7	2	1		1	183
PM Peak	15:00	15:00	15:00	14:00	14:00	12:00	13:00	12:00	12:00	15:00				15:00
Vol.	15	121	42	5	16	6	1	3	6	1				199

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Hall Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY001
Site Code: 057-21620

Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/28/21	0	5	1	0	0	1	0	0	2	0	0	0	0	9
01:00	0	4	0	0	0	0	0	0	1	0	0	0	0	5
02:00	0	4	2	2	0	2	0	0	1	0	0	0	0	11
03:00	4	9	6	0	2	0	0	0	0	0	0	0	0	21
04:00	3	28	7	1	1	1	0	**2**	0	0	0	0	0	43
05:00	6	21	7	4	3	3	0	1	0	0	0	0	0	45
06:00	5	67	26	5	3	5	0	0	2	0	0	0	0	113
07:00	**11**	**114**	**43**	4	**13**	0	0	0	0	0	0	0	0	**185**
08:00	11	89	38	5	10	3	**1**	0	2	0	0	0	0	159
09:00	5	66	21	**8**	12	**8**	1	0	**10**	0	0	0	0	131
10:00	9	49	27	5	13	1	0	2	3	**1**	0	0	0	110
11:00	10	53	29	0	13	8	0	1	4	0	0	0	0	118
12 PM	5	64	22	4	12	2	**1**	2	6	0	0	0	0	118
13:00	6	83	40	**7**	5	2	1	1	**8**	0	0	0	0	153
14:00	2	89	29	3	7	3	1	**3**	1	0	0	0	0	138
15:00	7	**114**	31	4	14	**10**	0	2	3	0	0	0	0	**185**
16:00	**11**	105	**41**	3	**16**	4	0	1	0	0	0	0	0	181
17:00	1	99	19	0	6	2	0	1	3	0	0	0	0	131
18:00	3	71	15	0	8	4	0	1	3	0	0	0	0	105
19:00	0	71	13	0	2	0	0	0	0	0	0	0	0	86
20:00	1	55	6	0	1	1	0	0	0	0	0	0	0	64
21:00	1	38	4	0	3	0	0	0	0	0	0	0	0	46
22:00	0	38	6	0	1	0	0	0	2	0	0	0	0	47
23:00	0	18	5	0	2	2	0	0	1	0	0	0	0	28
Total	101	1354	438	55	147	62	5	17	52	1	0	0	0	2232
Percent	4.5%	60.7%	19.6%	2.5%	6.6%	2.8%	0.2%	0.8%	2.3%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	09:00	07:00	09:00	08:00	04:00	09:00	10:00				07:00
Vol.	11	114	43	8	13	8	1	2	10	1				185
PM Peak	16:00	15:00	16:00	13:00	16:00	15:00	12:00	14:00	13:00					15:00
Vol.	11	114	41	7	16	10	1	3	8					185
Grand Total	221	2736	890	109	283	144	9	32	106	7	1	0	1	4539
Percent	4.9%	60.3%	19.6%	2.4%	6.2%	3.2%	0.2%	0.7%	2.3%	0.2%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Stewart and Gray Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY003
Site Code: 057-21620

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/27/21	1	47	11	0	1	0	0	0	1	0	0	0	0	61
01:00	0	46	6	0	1	1	0	0	2	0	0	0	0	56
02:00	0	27	5	2	0	2	0	0	2	1	0	0	0	39
03:00	0	38	2	0	2	0	0	0	2	0	0	0	0	44
04:00	0	70	22	1	6	0	0	1	**10**	0	0	0	0	110
05:00	0	131	41	1	10	2	0	2	5	0	0	0	0	192
06:00	1	247	58	1	9	1	1	8	0	1	0	0	0	327
07:00	6	**539**	**114**	4	23	2	**4**	**15**	2	**3**	0	0	**1**	**713**
08:00	**9**	394	102	**9**	**31**	2	3	8	5	1	0	0	0	564
09:00	4	308	96	4	25	1	2	9	5	1	0	0	0	455
10:00	5	321	80	3	28	**5**	0	9	3	1	**1**	0	1	457
11:00	1	364	80	3	16	3	3	6	3	0	0	**1**	0	480
12 PM	**12**	435	122	6	18	4	2	9	**3**	1	0	0	0	612
13:00	11	489	108	4	20	4	2	10	3	1	0	**1**	0	653
14:00	7	552	**126**	5	31	**5**	0	16	3	**5**	0	0	0	750
15:00	11	566	116	**7**	33	5	0	**23**	3	1	**1**	0	0	766
16:00	8	**643**	106	7	**35**	2	2	13	2	2	0	1	**1**	**822**
17:00	12	635	120	3	16	2	**3**	16	0	0	0	0	0	807
18:00	10	566	109	1	23	5	1	9	3	2	0	0	0	729
19:00	8	461	79	4	16	2	3	9	1	0	0	0	0	583
20:00	2	339	39	1	7	3	0	5	1	0	0	0	0	397
21:00	3	216	52	0	9	0	0	2	3	0	0	0	0	285
22:00	1	141	25	0	2	0	0	0	2	0	0	0	0	171
23:00	0	85	11	0	4	0	0	0	2	0	0	0	0	102
Total	112	7660	1630	66	366	51	26	170	66	20	2	3	3	10175
Percent	1.1%	75.3%	16.0%	0.6%	3.6%	0.5%	0.3%	1.7%	0.6%	0.2%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	07:00	08:00	08:00	10:00	07:00	07:00	04:00	07:00	10:00	11:00	07:00	07:00
Vol.	9	539	114	9	31	5	4	15	10	3	1	1	1	713
PM Peak	12:00	16:00	14:00	15:00	16:00	14:00	17:00	15:00	12:00	14:00	15:00	13:00	16:00	16:00
Vol.	12	643	126	7	35	5	3	23	3	5	1	1	1	822

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Stewart and Gray Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY003
Site Code: 057-21620

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/28/21	0	59	5	0	0	0	0	0	2	0	0	0	0	66
01:00	0	32	7	1	0	0	0	0	0	0	0	0	0	40
02:00	0	26	3	0	0	0	0	0	2	0	0	0	0	31
03:00	0	39	4	1	3	0	0	0	1	0	0	0	0	48
04:00	1	90	11	0	2	0	0	4	6	0	0	0	0	114
05:00	0	131	34	3	10	1	0	5	**7**	0	0	0	0	191
06:00	5	206	50	1	13	2	1	5	0	0	**1**	**1**	**1**	286
07:00	**11**	**572**	**114**	**7**	16	0	0	12	2	**2**	0	0	0	**736**
08:00	9	419	102	7	**41**	0	0	13	3	0	0	0	0	594
09:00	2	283	63	2	19	1	0	8	6	1	0	0	0	385
10:00	4	354	81	4	35	3	0	10	4	2	0	0	0	497
11:00	3	424	111	2	30	**5**	**2**	**15**	6	0	0	0	1	599
12 PM	7	437	95	4	28	2	**3**	11	**6**	**4**	**1**	0	0	598
13:00	5	506	89	5	20	3	3	13	5	2	0	0	0	651
14:00	**15**	522	108	5	**32**	**10**	3	10	6	3	0	**1**	**1**	716
15:00	9	616	**134**	**7**	25	7	0	**21**	2	3	0	0	0	**824**
16:00	9	570	108	5	24	1	1	16	3	1	0	0	0	738
17:00	11	**664**	105	2	21	3	2	7	2	1	0	0	0	818
18:00	5	600	99	0	18	3	1	7	0	2	0	0	0	735
19:00	6	493	93	0	16	4	1	10	1	0	1	0	1	626
20:00	9	376	75	0	8	2	2	0	1	1	0	0	0	474
21:00	3	283	50	1	7	0	0	4	1	1	0	0	0	350
22:00	2	175	25	0	2	0	0	0	1	0	0	0	0	205
23:00	1	101	13	1	1	0	0	0	0	0	0	0	0	117
Total	117	7978	1579	58	371	47	19	171	67	23	3	2	4	10439
Percent	1.1%	76.4%	15.1%	0.6%	3.6%	0.5%	0.2%	1.6%	0.6%	0.2%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	07:00	08:00	11:00	11:00	11:00	05:00	07:00	06:00	06:00	06:00	07:00
Vol.	11	572	114	7	41	5	2	15	7	2	1	1	1	736
PM Peak	14:00	17:00	15:00	15:00	14:00	14:00	12:00	15:00	12:00	12:00	12:00	14:00	14:00	15:00
Vol.	15	664	134	7	32	10	3	21	6	4	1	1	1	824
Grand Total	229	15638	3209	124	737	98	45	341	133	43	5	5	7	20614
Percent	1.1%	75.9%	15.6%	0.6%	3.6%	0.5%	0.2%	1.7%	0.6%	0.2%	0.0%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Stewart and Gray Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY003
Site Code: 057-21620

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/27/21	0	46	6	0	1	0	0	0	0	0	0	0	0	53
01:00	0	26	2	0	2	1	0	0	0	0	0	0	0	31
02:00	0	21	2	0	0	1	0	0	1	0	**1**	0	0	26
03:00	0	27	4	0	0	0	0	0	0	0	0	0	0	31
04:00	0	57	23	0	2	0	0	0	1	0	0	0	0	83
05:00	1	88	15	1	3	1	0	1	2	0	0	0	0	112
06:00	1	138	28	2	14	0	0	0	0	0	0	0	0	183
07:00	1	310	43	0	16	2	0	6	1	0	0	0	0	379
08:00	1	347	51	0	**19**	1	0	3	**3**	0	0	0	0	425
09:00	**3**	282	64	**3**	19	**3**	0	4	2	0	1	0	0	381
10:00	2	305	60	2	17	2	0	6	1	0	0	0	0	395
11:00	1	**367**	**74**	3	10	0	0	**8**	3	0	0	0	0	**466**
12 PM	0	425	67	**4**	17	3	0	5	5	0	0	0	0	526
13:00	1	418	82	3	15	3	0	5	0	**1**	0	0	0	528
14:00	1	486	78	3	**22**	**7**	0	7	1	0	0	0	**1**	606
15:00	1	480	87	1	15	3	0	**8**	1	0	**2**	0	0	598
16:00	1	524	81	1	13	4	0	6	1	0	2	0	0	633
17:00	2	**540**	**89**	1	11	3	0	8	4	0	0	0	0	**658**
18:00	**6**	521	89	0	13	2	0	5	**6**	0	0	**1**	0	643
19:00	2	415	65	1	13	2	0	3	0	0	0	0	0	501
20:00	0	338	53	1	4	2	0	2	0	1	0	0	0	401
21:00	0	186	28	0	2	1	0	2	0	1	0	0	0	220
22:00	0	111	21	0	3	0	0	0	2	0	0	0	0	137
23:00	0	58	11	1	1	0	0	1	1	0	0	0	0	73
Total	24	6516	1123	27	232	41	0	80	35	3	6	1	1	8089
Percent	0.3%	80.6%	13.9%	0.3%	2.9%	0.5%	0.0%	1.0%	0.4%	0.0%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	09:00	08:00	09:00		11:00	08:00		02:00			11:00
Vol.	3	367	74	3	19	3		8	3		1			466
PM Peak	18:00	17:00	17:00	12:00	14:00	14:00		15:00	18:00	13:00	15:00	18:00	14:00	17:00
Vol.	6	540	89	4	22	7		8	6	1	2	1	1	658

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Stewart and Gray Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY003
Site Code: 057-21620

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/28/21	0	37	2	0	0	0	0	0	0	0	0	0	0	39
01:00	0	27	6	0	1	0	0	0	0	0	0	0	0	34
02:00	0	23	3	2	2	0	0	0	1	0	0	0	0	31
03:00	0	18	4	0	0	0	0	0	0	0	0	0	0	22
04:00	0	55	14	0	0	0	0	1	0	0	0	0	0	70
05:00	0	85	18	0	10	0	0	2	1	0	0	0	0	116
06:00	0	144	32	**4**	20	1	0	2	1	0	0	0	0	204
07:00	**1**	319	61	4	19	0	**1**	2	1	0	0	0	0	408
08:00	1	339	62	1	20	**2**	1	2	4	0	0	0	0	432
09:00	0	286	61	4	**24**	1	0	4	2	0	0	0	0	382
10:00	0	343	82	4	18	1	0	4	1	0	0	0	0	453
11:00	0	**390**	**87**	1	19	2	0	**6**	**7**	**1**	0	0	0	**513**
12 PM	**4**	450	81	1	22	1	0	2	**5**	0	1	0	0	567
13:00	1	457	82	**3**	19	3	0	8	4	0	0	0	**1**	578
14:00	2	455	82	2	**24**	**6**	**1**	3	4	**1**	0	**1**	0	581
15:00	0	527	87	3	20	4	0	**14**	1	1	1	0	1	659
16:00	0	542	68	1	17	2	0	7	1	1	0	0	0	639
17:00	0	561	**93**	2	19	1	0	9	2	1	0	0	0	**688**
18:00	2	**566**	80	0	10	1	0	2	2	0	1	0	0	664
19:00	0	449	61	0	5	1	0	3	2	0	0	0	0	521
20:00	0	359	33	1	8	2	1	3	0	1	1	0	0	409
21:00	0	245	36	0	1	0	0	0	1	0	**2**	0	0	285
22:00	0	146	12	0	4	0	0	0	2	0	0	0	0	164
23:00	0	73	11	0	1	0	0	0	1	0	0	0	0	86
Total	11	6896	1158	33	283	28	4	74	43	6	6	1	2	8545
Percent	0.1%	80.7%	13.6%	0.4%	3.3%	0.3%	0.0%	0.9%	0.5%	0.1%	0.1%	0.0%	0.0%	
AM Peak	07:00	11:00	11:00	06:00	09:00	08:00	07:00	11:00	11:00	11:00				11:00
Vol.	1	390	87	4	24	2	1	6	7	1				513
PM Peak	12:00	18:00	17:00	13:00	14:00	14:00	14:00	15:00	12:00	14:00	21:00	14:00	13:00	17:00
Vol.	4	566	93	3	24	6	1	14	5	1	2	1	1	688
Grand Total	35	13412	2281	60	515	69	4	154	78	9	12	2	3	16634
Percent	0.2%	80.6%	13.7%	0.4%	3.1%	0.4%	0.0%	0.9%	0.5%	0.1%	0.1%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Stewart and Gray Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY003
Site Code: 057-21620

Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/27/21	1	93	17	0	2	0	0	0	1	0	0	0	0	114
01:00	0	72	8	0	3	2	0	0	2	0	0	0	0	87
02:00	0	48	7	2	0	3	0	0	3	1	**1**	0	0	65
03:00	0	65	6	0	2	0	0	0	2	0	0	0	0	75
04:00	0	127	45	1	8	0	0	1	**11**	0	0	0	0	193
05:00	1	219	56	2	13	3	0	3	7	0	0	0	0	304
06:00	2	385	86	3	23	1	1	8	0	1	0	0	0	510
07:00	7	**849**	157	4	39	4	**4**	**21**	3	**3**	0	0	**1**	**1092**
08:00	**10**	741	153	**9**	**50**	3	3	11	8	1	0	0	0	989
09:00	7	590	**160**	7	44	4	2	13	7	1	1	0	0	836
10:00	7	626	140	5	45	**7**	0	15	4	1	1	0	1	852
11:00	2	731	154	6	26	3	3	14	6	0	0	**1**	0	946
12 PM	12	860	189	**10**	35	7	2	14	8	1	0	0	0	1138
13:00	12	907	190	7	35	7	2	15	3	2	0	**1**	0	1181
14:00	8	1038	204	8	**53**	**12**	0	23	4	**5**	0	0	**1**	1356
15:00	12	1046	203	8	48	8	0	**31**	4	1	**3**	0	0	1364
16:00	9	1167	187	8	48	6	2	19	3	2	2	1	1	1455
17:00	14	**1175**	**209**	4	27	5	**3**	24	4	0	0	0	0	**1465**
18:00	**16**	1087	198	1	36	7	1	14	**9**	2	0	1	0	1372
19:00	10	876	144	5	29	4	3	12	1	0	0	0	0	1084
20:00	2	677	92	2	11	5	0	7	1	1	0	0	0	798
21:00	3	402	80	0	11	1	0	4	3	1	0	0	0	505
22:00	1	252	46	0	5	0	0	0	4	0	0	0	0	308
23:00	0	143	22	1	5	0	0	1	3	0	0	0	0	175
Total	136	14176	2753	93	598	92	26	250	101	23	8	4	4	18264
Percent	0.7%	77.6%	15.1%	0.5%	3.3%	0.5%	0.1%	1.4%	0.6%	0.1%	0.0%	0.0%	0.0%	
AM Peak	08:00	07:00	09:00	08:00	08:00	10:00	07:00	07:00	04:00	07:00	02:00	11:00	07:00	07:00
Vol.	10	849	160	9	50	7	4	21	11	3	1	1	1	1092
PM Peak	18:00	17:00	17:00	12:00	14:00	14:00	17:00	15:00	18:00	14:00	15:00	13:00	14:00	17:00
Vol.	16	1175	209	10	53	12	3	31	9	5	3	1	1	1465

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
(951) 268-6268
email: counts@countsunlimited.com

City of Downey
Stewart and Gray Road
W/ Woodruff Avenue
48 Hour Directional Classification Count

DNY003
Site Code: 057-21620

Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
10/28/21	0	96	7	0	0	0	0	0	2	0	0	0	0	105
01:00	0	59	13	1	1	0	0	0	0	0	0	0	0	74
02:00	0	49	6	2	2	0	0	0	3	0	0	0	0	62
03:00	0	57	8	1	3	0	0	0	1	0	0	0	0	70
04:00	1	145	25	0	2	0	0	5	6	0	0	0	0	184
05:00	0	216	52	3	20	1	0	7	8	0	0	0	0	307
06:00	5	350	82	5	33	3	1	7	1	0	**1**	**1**	**1**	490
07:00	**12**	**891**	175	**11**	35	0	1	14	3	**2**	0	0	0	**1144**
08:00	10	758	164	8	**61**	2	1	15	7	0	0	0	0	1026
09:00	2	569	124	6	43	2	0	12	8	1	0	0	0	767
10:00	4	697	163	8	53	4	0	14	5	2	0	0	0	950
11:00	3	814	**198**	3	49	**7**	**2**	**21**	**13**	1	0	0	1	1112
12 PM	11	887	176	5	50	3	3	13	**11**	**4**	**2**	0	0	1165
13:00	6	963	171	8	39	6	3	21	9	2	0	0	**1**	1229
14:00	**17**	977	190	7	**56**	**16**	**4**	13	10	4	0	**2**	1	1297
15:00	9	1143	**221**	**10**	45	11	0	**35**	3	4	1	0	1	1483
16:00	9	1112	176	6	41	3	1	23	4	2	0	0	0	1377
17:00	11	**1225**	198	4	40	4	2	16	4	2	0	0	0	**1506**
18:00	7	1166	179	0	28	4	1	9	2	2	1	0	0	1399
19:00	6	942	154	0	21	5	1	13	3	0	1	0	1	1147
20:00	9	735	108	1	16	4	3	3	1	2	1	0	0	883
21:00	3	528	86	1	8	0	0	4	2	1	2	0	0	635
22:00	2	321	37	0	6	0	0	0	3	0	0	0	0	369
23:00	1	174	24	1	2	0	0	0	1	0	0	0	0	203
Total	128	14874	2737	91	654	75	23	245	110	29	9	3	6	18984
Percent	0.7%	78.4%	14.4%	0.5%	3.4%	0.4%	0.1%	1.3%	0.6%	0.2%	0.0%	0.0%	0.0%	
AM Peak	07:00	07:00	11:00	07:00	08:00	11:00	11:00	11:00	11:00	07:00	06:00	06:00	06:00	07:00
Vol.	12	891	198	11	61	7	2	21	13	2	1	1	1	1144
PM Peak	14:00	17:00	15:00	15:00	14:00	14:00	14:00	15:00	12:00	12:00	12:00	14:00	13:00	17:00
Vol.	17	1225	221	10	56	16	4	35	11	4	2	2	1	1506
Grand Total	264	29050	5490	184	1252	167	49	495	211	52	17	7	10	37248
Percent	0.7%	78.0%	14.7%	0.5%	3.4%	0.4%	0.1%	1.3%	0.6%	0.1%	0.0%	0.0%	0.0%	

APPENDIX B

VMT REDUCTION CALCULATION WORKSHEETS

CAPCOA 2021 Handbook
VMT Reduction Summary
Project Design Features

Measure No.	Name	% VMT Reduction
Land Use		
T-2	Increase Job Density	9.9%
	Land Use Subtotal	**9.9%**
Trip Reduction Programs		
	Trip Reduction Programs Subtotal	**0.0%**
Parking or Road Pricing/Management		
	Parking or Road Pricing/Management Subtotal	**0.0%**
Neighborhood Design		
	Neighborhood Design Subtotal	**0.0%**
Transit		
	Transit Subtotal	**0.0%**
Clean Vehicles and Fuels		
	Clean Vehicles and Fuels Subtotal	No VMT Reduction
	Total VMT Reduction	**9.9%**

- $Reduction_{Subsector} = 1 - [(1 - A) \times (1 - B) \times (1 - C) \times \ldots]$

  $where\ A, B, C, \ldots\ are\ the\ individual\ measure\ reduction\ percentages\ in\ each\ subsector$

- $Reduction_{Total} = 1 - [(1 - Land) \times (1 - Trip\ Reduction) \times (1 - Parking) \times (1 - Design) \times (1 - Transit)]$

CAPCOA 2021 Handbook
VMT Reduction Calculation Worksheets

Measure T-2. Increase Job Density	
Subsector	Land Use
Measure Scale	Project/Site
Maximum Reduction	30.0%

Project VMT Reduction Due to Increased Job Density		
B	Job density of project development (jobs per acre)	26.21
C	Job density of typical development (jobs per acre)	10.87
D	Elasticity of VMT with respect to job density	-0.07
A	VMT Reduction = [(B - C) / C] * D	9.9%
	VMT Reduction	***9.9%***

Notes:

C Pursuant to the guidance provided in the 2021 Handbook, when reductions are being calculated from a specific baseline derived from a travel demand forecasting model, the job density of the relevant TAZ should be used instead of the default value provided for C. The existing job density for TAZ 21791300 without the project is calculated as follows:

1,486 employees/136.72 acres = 10.87 jobs per acre

B Based on trip rate data provided by ITE for Land Use 155: High-Cube Fulfillment Center Warehouse - Sort, a total of 2,777 employees are expected for the proposed project. Based on trip rate data provided by ITE for Land Use 110: General Light Industrial, a total of 680 employees are expected for the existing land use. Therefore, the proposed project is expected to result in a net increase of 2,097 employees (i.e., 2,777 project employees - 680 existing employees = 2,097 net new employees. The job density for TAZ 21791300 with the project is calculated as follows:

(1,486 + 2,097) employees/136.72 acres = 26.21 jobs per acre

CAPCOA 2021 Handbook
VMT Reduction Summary
Mitigation Measures

Measure No.	Name	% VMT Reduction
Land Use		
	Land Use Subtotal	**0.0%**
Trip Reduction Programs		
T-7	Implement Commute Trip Reduction Marketing	4.0%
T-8	Provide Ridesharing Program	8.0%
T-10	Provide End-of-Trip Bicycle Facilities	0.2%
	Trip Reduction Programs Subtotal	**11.9%**
Parking or Road Pricing/Management		
	Parking or Road Pricing/Management Subtotal	**0.0%**
Neighborhood Design		
	Neighborhood Design Subtotal	**0.0%**
Transit		
	Transit Subtotal	**0.0%**
Clean Vehicles and Fuels		
	Clean Vehicles and Fuels Subtotal	No VMT Reduction
	Total VMT Reduction	**11.9%**

- $Reduction_{Subsector} = 1 - [(1 - A) \times (1 - B) \times (1 - C) \times \dots]$

  $where\ A, B, C, \dots\ are\ the\ individual\ measure\ reduction\ percentages\ in\ each\ subsector$

- $Reduction_{Total} = 1 - [(1 - Land) \times (1 - Trip\ Reduction) \times (1 - Parking) \times (1 - Design) \times (1 - Transit)]$

Project/Site Scale VMT Reductions in Detail [1]:

Commute VMT Reductions	11.9%
Residual (Total Less Commute/Residential) VMT Reductions	0.0%

- $Reduction_{P/S\ Total} = 1 - [(1 - Commute) \times (1 - Residential) \times (1 - Residual)]$

[1] Measures T-5 to T-8 and T-10 to T-13 result in commute VMT reductions only. Measures T-4 and T-15 result in residential VMT reductions only. Measure T-9 may result in commute or residential VMT reductions. The remaining/residual measures are assumed to apply to all project-generated VMT.

CAPCOA 2021 Handbook
VMT Reduction Calculation Worksheets

Measure T-7. Implement Commute Trip Reduction Marketing	
Subsector	Trip Reduction Programs
Measure Scale	Project/Site
Maximum Reduction	4.0%

Project VMT Reduction Due to Commute Trip Reduction Marketing		
B	Percent of employees eligible for program	100%
C	Percent reduction in employee commute vehicle trips	-4.0%
D	Adjustment from vehicle trips to VMT	1
A	VMT Reduction = B * C * D	4.0%
	Commute VMT Reduction	***4.0%***

CAPCOA 2021 Handbook
VMT Reduction Calculation Worksheets

Measure T-8. Provide Ridesharing Program	
Subsector	Trip Reduction Programs
Measure Scale	Project/Site
Maximum Reduction	8.0%

	Project VMT Reduction Due to Ridesharing Program	
B	Percent of employees eligible for program	100%
C	Percent reduction in employee commute VMT [1]	-8.0%
A	VMT Reduction = B * C	8.0%
	Commute VMT Reduction	***8.0%***

[1] Table T-8.1. Reduction in Employee Commute Vehicle Miles Traveled by Place Type

Place Type	Reduction in Employee Commute VMT
Urban	-8%
Suburban	-4%
Rural	---

CAPCOA 2021 Handbook
VMT Reduction Calculation Worksheets

Measure T-10. Provide End-of-Trip Bicycle Facilities	
Subsector	Trip Reduction Programs
Measure Scale	Project/Site
Maximum Reduction	4.4%

Project VMT Reduction Due to End-of-Trip Bicycle Facilities		
B	Bike mode adjustment factor [1]	1.78
C	Existing bicycle trip length for all trips in region (miles) [2]	1.7
D	Existing vehicle trip length for all trips in region (miles) [2]	9.7
E	Existing bicycle mode share for work trips in region [3]	1.0%
F	Existing vehicle mode share for work trips in region [3]	90.7%
A	VMT Reduction = (C * [E - (B * E)]) / (D * F)	0.2%
	Commute VMT Reduction	***0.2%***

[1] Bike mode adjustment factor is either 4.86 or 1.78:
4.86 if bicycle parking, showers, and lockers are provided.
1.78 if bicycle parking is provided, but no showers or lockers.

[2] Table T-10.1. Average One-Way Bicycle and Vehicle Trip Length of All Trips by California Core-Based Statistical Area

Core-Based Statistical Area	**Trip Length (miles)**	
	Bicycle	**Vehicle**
Los Angeles-Long Beach-Anaheim	1.7	9.7
Riverside-San Bernardino-Ontario	2.2	11.7
Sacramento-Roseville-Arden-Arcade	2.9	10.9
San Diego-Carlsbad	2.0	19.1
San Francisco-Oakland-Hayward	2.1	12.4
San Jose-Sunnyvale-Santa Clara	2.8	11.5

[3] Table T-10.2. Average Bicycle and Vehicle Mode Share of Work Trips by California Core-Based Statistical Area

Core-Based Statistical Area	**Mode Share**	
	Bicycle	**Vehicle**
Los Angeles-Long Beach-Anaheim	1.0%	90.7%
Riverside-San Bernardino-Ontario	0.4%	95.3%
Sacramento-Roseville-Arden-Arcade	2.2%	89.5%
San Diego-Carlsbad	1.3%	91.8%
San Francisco-Oakland-Hayward	2.8%	67.1%
San Jose-Sunnyvale-Santa Clara	4.1%	86.6%

APPENDIX C

ICU/HCM AND LEVELS OF SERVICE EXPLANATION
ICU DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS
HCM DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS

INTERSECTION CAPACITY UTILIZATION (ICU) DESCRIPTION

Level of Service is a term used to describe prevailing conditions and their effect on traffic. Broadly interpreted, the Levels of Service concept denotes any one of a number of differing combinations of operating conditions which may occur as a roadway is accommodating various traffic volumes. Level of Service is a qualitative measure of the effect of such factors as travel speed, travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience.

Six Levels of Service, A through F, have been defined in the 1965 *Highway Capacity Manual*, published by the Transportation Research Board. Level of Service A describes a condition of free flow, with low traffic volumes and relatively high speeds, while Level of Service F describes forced traffic flow at low speeds with jammed conditions and queues which cannot clear during the green phases.

The Intersection Capacity Utilization (ICU) method of intersection capacity analysis has been used in our studies. It directly relates traffic demand and available capacity for key intersection movements, regardless of present signal timing, The capacity per hour of green time for each approach is calculated based on the methods of the *Highway Capacity Manual*. The proportion of total signal time needed by each key movement is determined and compared to the total time available (100 percent of the hour). The result of summing the requirements of the conflicting key movements plus an allowance for clearance times is expressed as a decimal fraction. Conflicting key traffic movements are those opposing movements whose combined green time requirements are greatest.

The resulting ICU represents the proportion of the total hour required to accommodate intersection demand volumes if the key conflicting traffic movements are operating at capacity. Other movements may be operating near capacity, or may be operating at significantly better levels. The ICU may be translated to a Level of Service as tabulated below.

The Levels of Service (abbreviated from the *Highway Capacity Manual*) are listed here with their corresponding ICU and Load Factor equivalents. Load Factor is that proportion of the signal cycles during the peak hour which are fully loaded; i.e. when all of the vehicles waiting at the beginning of green are not able to clear on that green phase.

Intersection Capacity Utilization Characteristics

Level of Service	Load Factor	Equivalent ICU
A	0.0	0.00 - 0.60
B	0.0 - 0.1	0.61 - 0.70
C	0.1 - 0.3	0.71 - 0.80
D	0.3 - 0.7	0.81 - 0.90
E	0.7 - 1.0	0.91 - 1.00
F	Not Applicable	Not Applicable

SERVICE LEVEL A
There are no loaded cycles and few are even close to loaded at this service level. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication.

SERVICE LEVEL B
This level represents stable operation where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.

SERVICE LEVEL C
At this level stable operation continues. Loading is still intermittent but more frequent than at Level B. Occasionally drivers may have to wait through more than one red signal indication and backups may develop behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so.

SERVICE LEVEL D
This level encompasses a zone of increasing restriction approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak hour, but enough cycles with lower demand occur to permit periodic clearance of queues, thus preventing excessive backups. Drivers frequently have to wait through more than one red signal. This level is the lower limit of acceptable operation to most drivers.

SERVICE LEVEL E
This represents near capacity and capacity operation. At capacity (ICU = 1.0) it represents the most vehicles that the particular intersection can accommodate. However, full utilization of every signal cycle is seldom attained no matter how great the demand. At this level all drivers wait through more than one red signal, and frequently through several.

SERVICE LEVEL F
Jammed conditions. Traffic backed up from a downstream location on one of the street restricts or prevents movement of traffic through the intersection under consideration.

LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS

In the *Highway Capacity Manual (HCM)*, published by the Transportation Research Board, 2000, level of service for signalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions: in the absence of traffic control, in the absence of geometric delay, in the absence of incidents, and when there are no other vehicles on the road. Only the portion of total delay attributed to the control facility is quantified. This delay is called *control delay*. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

Level of Service criteria for traffic signals are stated in terms of the average control delay per vehicle. Delay is a complex measure and is dependent on a number of variables, including the quality of progression, the cycle length, the green ratio, and the *v/c* ratio for the lane group in question.

Level of Service Criteria for Signalized Intersections

Level of Service	Control Delay (Sec/Veh)
A	≤ 10
B	> 10 and ≤ 20
C	> 20 and ≤ 35
D	> 35 and ≤ 55
E	> 55 and ≤ 80
F	> 80

Level of Service (LOS) values are used to describe intersection operations with service levels varying from LOS A (free flow) to LOS F (jammed condition). The following descriptions summarize *HCM* criteria for each level of service:

LOS A describes operations with very low control delay, up to 10 seconds per vehicle. This level of service occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay values.

LOS B describes operations with control delay greater than 10 and up to 20 seconds per vehicle. This level generally occurs with good progression, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of delay.

LOS C describes operations with control delay greater than 20 and up to 35 seconds per vehicle. These higher delays may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, though many still pass through the intersection without stopping.

LOS D describes operations with control delay greater than 35 and up to 55 seconds per vehicle. At LOS D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high *v/c* ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.

LOS E describes operations with control delay greater than 55 and up to 80 seconds per vehicle. This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high *v/c* ratios. Individual cycle failures are frequent occurrences.

LOS F describes operations with control delay in excess of 80 seconds per vehicle. This level, considered to be unacceptable to most drivers, often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the lane groups. It may also occur at high *v/c* ratios with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing factors to such delay levels.

LEVEL OF SERVICE FOR UNSIGNALIZED INTERSECTIONS

In the *Highway Capacity Manual (HCM)*, published by the Transportation Research Board, 2000, level of service for unsignalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and lost travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions, in the absence of incidents, control, traffic, or geometric delay. Only the portion of total delay attributed to the traffic control measures, either traffic signals or stop signs, is quantified. This delay is called *control delay*. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

Level of Service criteria for unsignalized intersections are stated in terms of the average control delay per vehicle. The level of service is determined by the computed or measured control delay and is defined for each minor movement. Average control delay for any particular minor movement is a function of the service time for the approach and the degree of utilization. (Level of service is not defined for the intersection as a whole for two-way stop controlled intersections.)

Level of Service Criteria for TWSC/AWSC Intersections

Level of Service	Average Control Delay (Sec/Veh)
A	≤ 10
B	> 10 and ≤ 15
C	> 15 and ≤ 25
D	> 25 and ≤ 35
E	> 35 and ≤ 50
F	> 50

Level of Service (LOS) values are used to describe intersection operations with service levels varying from LOS A (free flow) to LOS F (jammed condition). The following descriptions summarize *HCM* criteria for each level of service:

LOS A describes operations with very low control delay, up to 10 seconds per vehicle.

LOS B describes operations with control delay greater than 10 and up to 15 seconds per vehicle.

LOS C describes operations with control delay greater than 15 and up to 25 seconds per vehicle.

LOS D describes operations with control delay greater than 25 and up to 35 seconds per vehicle.

LOS E describes operations with control delay greater than 35 and up to 50 seconds per vehicle.

LOS F describes operations with control delay in excess of 50 seconds per vehicle. For two-way stop controlled intersections, LOS F exists when there are insufficient gaps of suitable size to allow side-street demand to safely cross through a major-street traffic stream. This level of service is generally evident from extremely long control delays experienced by side-street traffic and by queuing on the minor-street approaches.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Firestone Boulevard

N-S St: Woodruff Avenue
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU1

Peak hr: AM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	489	0	0.153 *	4	493	0	0.154 *	0	493	0	0.154 *	10	21	520	0	0.163 *	4	524	0	0.164 *
NB Thru	1	3200	0.153	0	1	3200	0.154	0	1	3200	0.154	0	0	1	3200	0.163	0	1	3200	0.164
NB Right	199	1600	0.124	2	201	1600	0.126	0	201	1600	0.126	4	0	203	1600	0.127	2	205	1600	0.128
SB Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Right	4	1600	0.003 *	0	4	1600	0.003 *	0	4	1600	0.003 *	0	0	4	1600	0.003 *	0	4	1600	0.003 *
EB Left	3	1600	0.002	0	3	1600	0.002 *	0	3	1600	0.002 *	0	0	3	1600	0.002	0	3	1600	0.002 *
EB Thru	946	4800	0.197 *	0	946	4800	0.197	0	946	4800	0.197	19	31	996	4800	0.208 *	0	996	4800	0.208
EB Right [3]	425	1600	0.113	5	430	1600	0.115	0	430	1600	0.115	9	17	451	1600	0.119	5	456	1600	0.121
WB Left	213	1600	0.133 *	-40	173	1600	0.108	0	173	1600	0.108	4	0	217	1600	0.136 *	-40	177	1600	0.111
WB Thru	1535	4800	0.321	0	1535	4800	0.321 *	0	1535	4800	0.321 *	31	34	1600	4800	0.334	0	1600	4800	0.334 *
WB Right	4	0	0.000	0	4	0	0.000	0	4	0	0.000	0	0	4	0	0.000	0	4	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.586				0.579				0.579					0.608				0.602
LOS			A				A				A					B				B

** Key conflicting movement as a part of ICU*
1 Counts conducted by: Counts Unlimited
2 Capacity expressed in veh/hour of green
3 The eastbound right-turn lane has an overlapping phase with the northbound left-turn phase.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Firestone Boulevard

N-S St: Woodruff Avenue
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU1

Peak hr: PM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	515	0	0.161 *	11	526	0	0.164 *	0	526	0	0.164 *	10	15	540	0	0.169 *	11	551	0	0.172 *
NB Thru	12	3200	0.165	0	12	3200	0.168	0	12	3200	0.168	0	0	12	3200	0.173	0	12	3200	0.176
NB Right	266	1600	0.166	-22	244	1600	0.153	0	244	1600	0.153	5	0	271	1600	0.169	-22	249	1600	0.156
SB Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Right	45	1600	0.028 *	0	45	1600	0.028 *	0	45	1600	0.028 *	1	0	46	1600	0.029 *	0	46	1600	0.029 *
EB Left	21	1600	0.013	0	21	1600	0.013	0	21	1600	0.013	0	0	21	1600	0.013	0	21	1600	0.013
EB Thru	1229	4800	0.256 *	0	1229	4800	0.256 *	0	1229	4800	0.256 *	25	30	1284	4800	0.268 *	0	1284	4800	0.268 *
EB Right [3]	346	1600	0.055	21	367	1600	0.065	0	367	1600	0.065	7	16	369	1600	0.062	21	390	1600	0.072
WB Left	168	1600	0.105 *	35	203	1600	0.127 *	0	203	1600	0.127 *	3	0	171	1600	0.107 *	35	206	1600	0.129 *
WB Thru	1170	4800	0.248	0	1170	4800	0.248	0	1170	4800	0.248	24	29	1223	4800	0.259	0	1223	4800	0.259
WB Right	22	0	0.000	0	22	0	0.000	0	22	0	0.000	0	0	22	0	0.000	0	22	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.650				0.675				0.675					0.672				0.697
LOS			B				B				B					B				B

** Key conflicting movement as a part of ICU*
1 Counts conducted by: Counts Unlimited
2 Capacity expressed in veh/hour of green
3 The eastbound right-turn lane has an overlapping phase with the northbound left-turn phase.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Hall Road

N-S St: Woodruff Avenue
E-W St: Hall Road
Project: 9350 Hall Road Industrial Project/1-214450-1
File: ICU2

Peak hr: AM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	28	1600	0.018 *	29	57	1600	0.036 *	0	57	1600	0.036 *	1	0	29	1600	0.018 *	29	58	1600	0.036 *
NB Thru	678	3200	0.212	2	680	3200	0.213	0	680	3200	0.213	14	21	713	3200	0.223	2	715	3200	0.223
NB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Thru	674	3200	0.220 *	7	681	3200	0.209 *	0	681	3200	0.209 *	14	17	705	3200	0.230 *	7	712	3200	0.219 *
SB Right	31	0	0.000	-42	-11	0	0.000	0	-11	0	0.000	1	0	32	0	0.000	-42	-10	0	0.000
EB Left	62	0	0.039	4	66	0	0.041	0	66	0	0.041	1	0	63	0	0.039	4	67	0	0.042
EB Thru	0	1600	0.053 *	0	0	1600	0.061 *	0	0	1600	0.061 *	0	0	0	1600	0.054 *	0	0	1600	0.062 *
EB Right	23	0	0.000	9	32	0	0.000	0	32	0	0.000	0	0	23	0	0.000	9	32	0	0.000
WB Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0	0.000 *	0	0	0	0.000 *
WB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
WB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.391				0.406				0.406					0.402				0.418
LOS			A				A				A					A				A

** Key conflicting movement as a part of ICU*
1 Counts conducted by: Counts Unlimited
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Hall Road

N-S St: Woodruff Avenue
E-W St: Hall Road
Project: 9350 Hall Road Industrial Project/1-214450-1
File: ICU2

Peak hr: PM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	24	1600	0.015	34	58	1600	0.036	0	58	1600	0.036	0	0	24	1600	0.015	34	58	1600	0.036
NB Thru	765	3200	0.239 *	9	774	3200	0.242 *	0	774	3200	0.242 *	15	15	795	3200	0.248 *	9	804	3200	0.251 *
NB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0	0.000 *	0	0	0	0.000 *
SB Thru	506	3200	0.167	8	514	3200	0.184	0	514	3200	0.184	10	16	532	3200	0.175	8	540	3200	0.192
SB Right	27	0	0.000	47	74	0	0.000	0	74	0	0.000	1	0	28	0	0.000	47	75	0	0.000
EB Left	63	0	0.039	-19	44	0	0.028	0	44	0	0.028	1	0	64	0	0.040	-19	45	0	0.028
EB Thru	0	1600	0.070 *	0	0	1600	0.080 *	0	0	1600	0.080 *	0	0	0	1600	0.071 *	0	0	1600	0.081 *
EB Right	49	0	0.000	35	84	0	0.000	0	84	0	0.000	1	0	50	0	0.000	35	85	0	0.000
WB Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0	0.000 *	0	0	0	0.000 *
WB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
WB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.409				0.422				0.422					0.420				0.433
LOS			A				A				A					A				A

** Key conflicting movement as a part of ICU*
1 Counts conducted by: Counts Unlimited
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Stewart and Gray Road

N-S St: Woodruff Avenue
E-W St: Stewart and Gray Road
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU3

Peak hr: AM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	158	1600	0.099 *	-7	151	1600	0.094 *	0	151	1600	0.094 *	3	0	161	1600	0.101 *	-7	154	1600	0.096 *
NB Thru	642	3200	0.221	7	649	3200	0.223	0	649	3200	0.223	13	21	676	3200	0.241	7	683	3200	0.243
NB Right	65	0	0.000	0	65	0	0.000	0	65	0	0.000	1	29	95	0	0.000	0	95	0	0.000
SB Left	16	1600	0.010	7	23	1600	0.014	0	23	1600	0.014	0	0	16	1600	0.010	7	23	1600	0.014
SB Thru	607	3200	0.190 *	2	609	3200	0.190 *	0	609	3200	0.190 *	12	17	636	3200	0.199 *	2	638	3200	0.199 *
SB Right [3]	72	1600	0.022	7	79	1600	0.025	0	79	1600	0.025	1	0	73	1600	0.022	7	80	1600	0.025
EB Left	37	1600	0.023	2	39	1600	0.024	0	39	1600	0.024	1	0	38	1600	0.024	2	40	1600	0.025
EB Thru	547	3200	0.171 *	0	547	3200	0.171 *	0	547	3200	0.171 *	11	0	558	3200	0.174 *	0	558	3200	0.174 *
EB Right	75	1600	0.047	2	77	1600	0.048	0	77	1600	0.048	2	0	77	1600	0.048	2	79	1600	0.049
WB Left	93	1600	0.058 *	0	93	1600	0.058 *	0	93	1600	0.058 *	2	26	121	1600	0.076 *	0	121	1600	0.076 *
WB Thru	333	3200	0.115	-76	257	3200	0.098	0	257	3200	0.098	7	0	340	3200	0.118	-76	264	3200	0.100
WB Right	35	0	0.000	21	56	0	0.000	0	56	0	0.000	1	0	36	0	0.000	21	57	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.618				0.614				0.614					0.649				0.646
LOS			B				B				B					B				B

** Key conflicting movement as a part of ICU*
1 Counts conducted by: AimTD
2 Capacity expressed in veh/hour of green
3 The southbound right-turn lane has an overlapping phase with the eastbound left-turn phase.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Stewart and Gray Road

N-S St: Woodruff Avenue
E-W St: Stewart and Gray Road
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU3

Peak hr: PM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	105	1600	0.066	19	124	1600	0.078	0	124	1600	0.078	2	0	107	1600	0.067	19	126	1600	0.079
NB Thru	535	3200	0.204 *	8	543	3200	0.207 *	0	543	3200	0.207 *	11	15	561	3200	0.221 *	8	569	3200	0.223 *
NB Right	118	0	0.000	0	118	0	0.000	0	118	0	0.000	2	26	146	0	0.000	0	146	0	0.000
SB Left	20	1600	0.013 *	26	46	1600	0.029 *	0	46	1600	0.029 *	0	0	20	1600	0.013 *	26	46	1600	0.029 *
SB Thru	450	3200	0.141	9	459	3200	0.143	0	459	3200	0.143	9	16	475	3200	0.148	9	484	3200	0.151
SB Right [3]	166	1600	0.000	8	174	1600	0.000	0	174	1600	0.000	3	0	169	1600	0.000	8	177	1600	0.000
EB Left	192	1600	0.120 *	9	201	1600	0.126 *	0	201	1600	0.126 *	4	0	196	1600	0.123 *	9	205	1600	0.128 *
EB Thru	592	3200	0.185	-47	545	3200	0.170	0	545	3200	0.170	12	0	604	3200	0.189	-47	557	3200	0.174
EB Right	104	1600	0.065	1	105	1600	0.066	0	105	1600	0.066	2	0	106	1600	0.066	1	107	1600	0.067
WB Left	62	1600	0.039	0	62	1600	0.039	0	62	1600	0.039	1	27	90	1600	0.056	0	90	1600	0.056
WB Thru	357	3200	0.127 *	47	404	3200	0.149 *	0	404	3200	0.149 *	7	0	364	3200	0.129 *	47	411	3200	0.152 *
WB Right	48	0	0.000	25	73	0	0.000	0	73	0	0.000	1	0	49	0	0.000	25	74	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.563				0.610				0.610					0.585				0.632
LOS			A				B				B					A				B

** Key conflicting movement as a part of ICU*
1 Counts conducted by: AimTD
2 Capacity expressed in veh/hour of green
3 The southbound right-turn lane has an overlapping phase with the eastbound left-turn phase.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Washburn Road

N-S St: Woodruff Avenue
E-W St: Washburn Road
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU4

Peak hr: AM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	84	1600	0.053	0	84	1600	0.053	0	84	1600	0.053	2	0	86	1600	0.054	0	86	1600	0.054
NB Thru	832	3200	0.289 *	-7	825	3200	0.287 *	0	825	3200	0.287 *	17	29	878	3200	0.304 *	-7	871	3200	0.302 *
NB Right	94	0	0.000	0	94	0	0.000	0	94	0	0.000	2	0	96	0	0.000	0	96	0	0.000
SB Left	49	1600	0.031 *	0	49	1600	0.031 *	0	49	1600	0.031 *	1	0	50	1600	0.031 *	0	50	1600	0.031 *
SB Thru	619	3200	0.205	2	621	3200	0.207	0	621	3200	0.207	12	29	660	3200	0.218	2	662	3200	0.220
SB Right	38	0	0.000	2	40	0	0.000	0	40	0	0.000	1	0	39	0	0.000	2	41	0	0.000
EB Left	34	0	0.021	7	41	0	0.026	0	41	0	0.026	1	0	35	0	0.022	7	42	0	0.026
EB Thru	27	1600	0.038 *	0	27	1600	0.043 *	0	27	1600	0.043 *	1	0	28	1600	0.039 *	0	28	1600	0.044 *
EB Right	40	1600	0.025	0	40	1600	0.025	0	40	1600	0.025	1	0	41	1600	0.026	0	41	1600	0.026
WB Left	47	0	0.029 *	0	47	0	0.029 *	0	47	0	0.029 *	1	0	48	0	0.030 *	0	48	0	0.030 *
WB Thru	5	1600	0.033	0	5	1600	0.033	0	5	1600	0.033	0	0	5	1600	0.033	0	5	1600	0.033
WB Right	24	1600	0.015	0	24	1600	0.015	0	24	1600	0.015	0	0	24	1600	0.015	0	24	1600	0.015
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.488				0.490				0.490					0.505				0.507
LOS			A				A				A					A				A

** Key conflicting movement as a part of ICU*
1 Counts conducted by: AimTD
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Washburn Road

N-S St: Woodruff Avenue
E-W St: Washburn Road
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU4

Peak hr: PM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	40	1600	0.025 *	0	40	1600	0.025 *	0	40	1600	0.025 *	1	0	41	1600	0.026 *	0	41	1600	0.026 *
NB Thru	581	3200	0.197	19	600	3200	0.203	0	600	3200	0.203	12	25	618	3200	0.209	19	637	3200	0.215
NB Right	50	0	0.000	0	50	0	0.000	0	50	0	0.000	1	0	51	0	0.000	0	51	0	0.000
SB Left	21	1600	0.013	0	21	1600	0.013	0	21	1600	0.013	0	0	21	1600	0.013	0	21	1600	0.013
SB Thru	596	3200	0.203 *	1	597	3200	0.206 *	0	597	3200	0.206 *	12	25	633	3200	0.214 *	1	634	3200	0.218 *
SB Right	52	0	0.000	9	61	0	0.000	0	61	0	0.000	1	0	53	0	0.000	9	62	0	0.000
EB Left	47	0	0.029	8	55	0	0.034	0	55	0	0.034	1	0	48	0	0.030	8	56	0	0.035
EB Thru	8	1600	0.034	0	8	1600	0.039	0	8	1600	0.039	0	0	8	1600	0.035	0	8	1600	0.040
EB Right	112	1600	0.070 *	0	112	1600	0.070 *	0	112	1600	0.070 *	2	0	114	1600	0.071 *	0	114	1600	0.071 *
WB Left	114	0	0.071 *	0	114	0	0.071 *	0	114	0	0.071 *	2	0	116	0	0.073 *	0	116	0	0.073 *
WB Thru	12	1600	0.079	0	12	1600	0.079	0	12	1600	0.079	0	0	12	1600	0.080	0	12	1600	0.080
WB Right	43	1600	0.027	0	43	1600	0.027	0	43	1600	0.027	1	0	44	1600	0.028	0	44	1600	0.028
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.469				0.472				0.472					0.484				0.487
LOS			A				A				A					A				A

** Key conflicting movement as a part of ICU*
1 Counts conducted by: AimTD
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Imperial Highway

N-S St: Woodruff Avenue
E-W St: Imperial Highway
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU5

Peak hr: AM
Annual Growth: 1.00%

Date: 9/7/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	222	1600	0.139 *	0	222	1600	0.139 *	0	222	1600	0.139 *	4	2	228	1600	0.143 *	0	228	1600	0.143 *
NB Thru	548	3200	0.171	-18	530	3200	0.166	0	530	3200	0.166	11	22	581	3200	0.182	-18	563	3200	0.176
NB Right	260	1600	0.100	0	260	1600	0.100	0	260	1600	0.100	5	2	267	1600	0.103	0	267	1600	0.103
SB Left	137	1600	0.086	1	138	1600	0.086	0	138	1600	0.086	3	5	145	1600	0.091	1	146	1600	0.091
SB Thru	398	3200	0.124 *	-2	396	3200	0.124 *	0	396	3200	0.124 *	8	19	425	3200	0.133 *	-2	423	3200	0.132 *
SB Right	168	1600	0.105	1	169	1600	0.106	0	169	1600	0.106	3	5	176	1600	0.110	1	177	1600	0.111
EB Left	192	1600	0.120 *	6	198	1600	0.124 *	0	198	1600	0.124 *	4	4	200	1600	0.125 *	6	206	1600	0.129 *
EB Thru	626	4800	0.153	0	626	4800	0.153	0	626	4800	0.153	13	0	639	4800	0.156	0	639	4800	0.156
EB Right	106	0	0.000	0	106	0	0.000	0	106	0	0.000	2	1	109	0	0.000	0	109	0	0.000
WB Left	200	1600	0.125	0	200	1600	0.125	0	200	1600	0.125	4	1	205	1600	0.128	0	205	1600	0.128
WB Thru	925	4800	0.250 *	0	925	4800	0.251 *	0	925	4800	0.251 *	19	0	944	4800	0.256 *	0	944	4800	0.257 *
WB Right	274	0	0.000	6	280	0	0.000	0	280	0	0.000	6	4	284	0	0.000	6	290	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.733				0.737				0.737					0.756				0.761
LOS			C				C				C					C				C

** Key conflicting movement as a part of ICU*
1 Counts conducted by: Counts Unlimited
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Woodruff Avenue @ Imperial Highway

N-S St: Woodruff Avenue
E-W St: Imperial Highway
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU5

Peak hr: PM
Annual Growth: 1.00%

Date: 9/7/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	126	1600	0.079	0	126	1600	0.079	0	126	1600	0.079	3	2	131	1600	0.082	0	131	1600	0.082
NB Thru	429	3200	0.134	5	434	3200	0.136	0	434	3200	0.136	9	15	453	3200	0.142	5	458	3200	0.143
NB Right	340	1600	0.146 *	0	340	1600	0.146 *	0	340	1600	0.146 *	7	2	349	1600	0.149 *	0	349	1600	0.149 *
SB Left	248	1600	0.155 *	7	255	1600	0.159 *	0	255	1600	0.159 *	5	4	257	1600	0.161 *	7	264	1600	0.165 *
SB Thru	467	3200	0.146	-12	455	3200	0.142	0	455	3200	0.142	9	18	494	3200	0.154	-12	482	3200	0.151
SB Right	198	1600	0.124	7	205	1600	0.128	0	205	1600	0.128	4	4	206	1600	0.129	7	213	1600	0.133
EB Left	101	1600	0.063	6	107	1600	0.067	0	107	1600	0.067	2	4	107	1600	0.067	6	113	1600	0.071
EB Thru	1306	4800	0.299 *	0	1306	4800	0.299 *	0	1306	4800	0.299 *	26	0	1332	4800	0.306 *	0	1332	4800	0.306 *
EB Right	131	0	0.000	0	131	0	0.000	0	131	0	0.000	3	3	137	0	0.000	0	137	0	0.000
WB Left	214	1600	0.134 *	0	214	1600	0.134 *	0	214	1600	0.134 *	4	3	221	1600	0.138 *	0	221	1600	0.138 *
WB Thru	670	4800	0.164	0	670	4800	0.165	0	670	4800	0.165	13	0	683	4800	0.168	0	683	4800	0.169
WB Right	117	0	0.000	6	123	0	0.000	0	123	0	0.000	2	4	123	0	0.000	6	129	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.834				0.838				0.838					0.854				0.858
LOS			D				D				D					D				D

** Key conflicting movement as a part of ICU*
1 Counts conducted by: Counts Unlimited
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Newville Avenue-Stewart and Gray Road @ Firestone Boulevard

N-S St: Newville Avenue-Stewart and Gray Road
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU6

Peak hr: AM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
NB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
NB Right [3],[4]	629	3200	0.058 *	7	636	3200	0.079 *	0	636	3200	0.079 *	13	29	671	3200	0.059 *	7	678	3200	0.080 *
SB Left	115	1600	0.072 *	0	115	1600	0.072 *	0	115	1600	0.072 *	2	0	117	1600	0.073 *	0	117	1600	0.073 *
SB Thru	31	1600	0.043	0	31	1600	0.043	0	31	1600	0.043	1	0	32	1600	0.044	0	32	1600	0.044
SB Right	37	0	0.000	0	37	0	0.000	0	37	0	0.000	1	0	38	0	0.000	0	38	0	0.000
EB Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
EB Thru	1079	4800	0.225 *	2	1081	4800	0.225 *	0	1081	4800	0.225 *	22	31	1132	4800	0.236 *	2	1134	4800	0.236 *
EB Right	27	1600	0.017	0	27	1600	0.017	0	27	1600	0.017	1	0	28	1600	0.018	0	28	1600	0.018
WB Left	400	2880	0.139 *	-54	346	2880	0.120 *	0	346	2880	0.120 *	8	26	434	2880	0.151 *	-54	380	2880	0.132 *
WB Thru	1670	4800	0.353	-40	1630	4800	0.344	0	1630	4800	0.344	34	34	1738	4800	0.367	-40	1698	4800	0.359
WB Right	23	0	0.000	0	23	0	0.000	0	23	0	0.000	0	0	23	0	0.000	0	23	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.593				0.596				0.596					0.619				0.621
LOS			A				A				A					B				B

** Key conflicting movement as a part of ICU*
1 Counts conducted by: NDS
2 Capacity expressed in veh/hour of green
3 No right-turn on red.
4 The northbound right-turn lane has an overlapping phase with the westbound left-turn phase.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

Newville Avenue-Stewart and Gray Road @ Firestone Boulevard

N-S St: Newville Avenue-Stewart and Gray Road
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU6

Peak hr: PM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
NB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
NB Right [3],[4]	723	3200	0.099 *	-21	702	3200	0.068 *	0	702	3200	0.068 *	15	26	764	3200	0.100 *	-21	743	3200	0.069 *
SB Left	83	1600	0.052 *	0	83	1600	0.052 *	0	83	1600	0.052 *	2	0	85	1600	0.053 *	0	85	1600	0.053 *
SB Thru	29	1600	0.044	0	29	1600	0.044	0	29	1600	0.044	1	0	30	1600	0.046	0	30	1600	0.046
SB Right	42	0	0.000	0	42	0	0.000	0	42	0	0.000	1	0	43	0	0.000	0	43	0	0.000
EB Left	4	0	0.001	0	4	0	0.001	0	4	0	0.001	0	0	4	0	0.001	0	4	0	0.001
EB Thru	1425	4800	0.298 *	-22	1403	4800	0.293 *	0	1403	4800	0.293 *	29	30	1484	4800	0.310 *	-22	1462	4800	0.305 *
EB Right	65	1600	0.041	0	65	1600	0.041	0	65	1600	0.041	1	0	66	1600	0.041	0	66	1600	0.041
WB Left	365	2880	0.127 *	72	437	2880	0.152 *	0	437	2880	0.152 *	7	27	399	2880	0.139 *	72	471	2880	0.164 *
WB Thru	1321	4800	0.284	35	1356	4800	0.291	0	1356	4800	0.291	27	29	1377	4800	0.295	35	1412	4800	0.303
WB Right	40	0	0.000	0	40	0	0.000	0	40	0	0.000	1	0	41	0	0.000	0	41	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.676				0.664				0.664					0.702				0.691
LOS			B				B				B					C				B

** Key conflicting movement as a part of ICU*
1 Counts conducted by: NDS
2 Capacity expressed in veh/hour of green
3 No right-turn on red.
4 The northbound right-turn lane has an overlapping phase with the westbound left-turn phase.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

I-605 Fwy SB Ramps @ Firestone Boulevard

N-S St: I-605 Fwy SB Ramps
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU7

Peak hr: AM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0	0.000 *	0	0	0	0.000 *
NB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
NB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Left	94	1600	0.059	0	94	1600	0.059	0	94	1600	0.059	2	0	96	1600	0.060	0	96	1600	0.060
SB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Right	367	3200	0.115 *	-56	311	3200	0.097 *	0	311	3200	0.097 *	7	10	384	3200	0.120 *	-56	328	3200	0.103 *
EB Left	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0	0.000 *	0	0	0	0.000 *
EB Thru	1063	3200	0.332	7	1070	3200	0.334	0	1070	3200	0.334	21	48	1132	3200	0.354	7	1139	3200	0.356
EB Right	585	1600	0.366	1	586	1600	0.366	0	586	1600	0.366	12	12	609	1600	0.381	1	610	1600	0.381
WB Left	223	1600	0.139	0	223	1600	0.139	0	223	1600	0.139	4	0	227	1600	0.142	0	227	1600	0.142
WB Thru	1724	3200	0.539 *	-39	1685	3200	0.527 *	0	1685	3200	0.527 *	35	48	1807	3200	0.565 *	-39	1768	3200	0.553 *
WB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.753				0.724				0.724					0.785				0.755
LOS			C				C				C					C				C

** Key conflicting movement as a part of ICU*
1 Counts conducted by: NDS
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

I-605 Fwy SB Ramps @ Firestone Boulevard

N-S St: I-605 Fwy SB Ramps
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU7

Peak hr: PM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	0	0	0.000	0	0	0	0.000 *	0	0	0	0.000 *	0	0	0	0	0.000	0	0	0	0.000 *
NB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
NB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Left	154	1600	0.096	0	154	1600	0.096	0	154	1600	0.096	3	0	157	1600	0.098	0	157	1600	0.098
SB Thru	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Right	291	3200	0.091	43	334	3200	0.104 *	0	334	3200	0.104 *	6	11	308	3200	0.096	43	351	3200	0.110 *
EB Left	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
EB Thru	1314	3200	0.411 *	-11	1303	3200	0.407 *	0	1303	3200	0.407 *	26	44	1384	3200	0.433 *	-11	1373	3200	0.429 *
EB Right	610	1600	0.381	-32	578	1600	0.361	0	578	1600	0.361	12	10	632	1600	0.395	-32	600	1600	0.375
WB Left	142	1600	0.089 *	0	142	1600	0.089 *	0	142	1600	0.089 *	3	0	145	1600	0.091 *	0	145	1600	0.091 *
WB Thru	1430	3200	0.447	64	1494	3200	0.467	0	1494	3200	0.467	29	43	1502	3200	0.469	64	1566	3200	0.489
WB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.696				0.700				0.700					0.721				0.729
LOS			B				B				B					C				C

** Key conflicting movement as a part of ICU*
1 Counts conducted by: NDS
2 Capacity expressed in veh/hour of green

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

I-605 Fwy NB Ramps-Hoxie Avenue @ Firestone Boulevard

N-S St: I-605 Fwy NB Ramps-Hoxie Avenue
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU8

Peak hr: AM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	84	1600	0.053 *	0	84	1600	0.053 *	0	84	1600	0.053 *	2	10	96	1600	0.060 *	0	96	1600	0.060 *
NB Thru	242	3200	0.100	0	242	3200	0.100	0	242	3200	0.100	5	0	247	3200	0.102	0	247	3200	0.102
NB Right	77	0	0.000	0	77	0	0.000	0	77	0	0.000	2	0	79	0	0.000	0	79	0	0.000
SB Left	142	2880	0.049	0	142	2880	0.049	0	142	2880	0.049	3	0	145	2880	0.050	0	145	2880	0.050
SB Thru	8	1600	0.005	0	8	1600	0.005	0	8	1600	0.005	0	0	8	1600	0.005	0	8	1600	0.005
SB Right [3]	860	1600	0.390 *	-56	804	1600	0.355 *	0	804	1600	0.355 *	17	0	877	1600	0.394 *	-56	821	1600	0.358 *
EB Left	424	2880	0.147 *	1	425	2880	0.148 *	0	425	2880	0.148 *	9	12	445	2880	0.155 *	1	446	2880	0.155 *
EB Thru	694	3200	0.232	6	700	3200	0.233	0	700	3200	0.233	14	37	745	3200	0.248	6	751	3200	0.250
EB Right	47	0	0.000	0	47	0	0.000	0	47	0	0.000	1	0	48	0	0.000	0	48	0	0.000
WB Left	94	1600	0.059	0	94	1600	0.059	0	94	1600	0.059	2	0	96	1600	0.060	0	96	1600	0.060
WB Thru	972	3200	0.304 *	18	990	3200	0.309 *	0	990	3200	0.309 *	20	38	1030	3200	0.322 *	18	1048	3200	0.328 *
WB Right [4]	186	1600	0.116	0	186	1600	0.116	0	186	1600	0.116	4	0	190	1600	0.119	0	190	1600	0.119
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.994				0.964				0.964					1.030				1.001
LOS			E				E				E					F				F

** Key conflicting movement as a part of ICU*
1 Counts conducted by: NDS
2 Capacity expressed in veh/hour of green
3 The southbound right-turn lane has an overlapping phase with the eastbound left-turn phase.
4 No right-turn on red.

LINSCOTT, LAW & GREENSPAN, ENGINEERS
600 S. Lake Avenue, Ste 500, Pasadena 91106
(626) 796.2322 Fax (626) 792.0941

INTERSECTION CAPACITY UTILIZATION

I-605 Fwy NB Ramps-Hoxie Avenue @ Firestone Boulevard

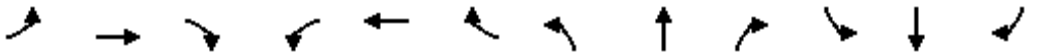
N-S St: I-605 Fwy NB Ramps-Hoxie Avenue
E-W St: Firestone Boulevard
Project: Prologis Stewart & Gray Road Warehouse Project/1-214450-1
File: ICU8

Peak hr: PM
Annual Growth: 1.00%

Date: 1/5/2023
Existing Year: 2022
Projection Year: 2024

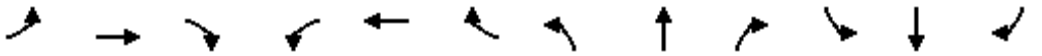
	2022 EXISTING TRAFFIC			2022 EXISTING WITH PROJECT				2022 EXISTING W/ PROJECT + MITIGATION				2024 FUTURE PRE-PROJECT					2024 FUTURE WITH PROJECT			
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left	176	1600	0.110 *	0	176	1600	0.110 *	0	176	1600	0.110 *	4	11	191	1600	0.119 *	0	191	1600	0.119 *
NB Thru	324	3200	0.153	0	324	3200	0.153	0	324	3200	0.153	7	0	331	3200	0.156	0	331	3200	0.156
NB Right	166	0	0.000	0	166	0	0.000	0	166	0	0.000	3	0	169	0	0.000	0	169	0	0.000
SB Left	245	2880	0.085	0	245	2880	0.085	0	245	2880	0.085	5	0	250	2880	0.087	0	250	2880	0.087
SB Thru	37	1600	0.023	0	37	1600	0.023	0	37	1600	0.023	1	0	38	1600	0.024	0	38	1600	0.024
SB Right [3]	570	1600	0.190 *	43	613	1600	0.228 *	0	613	1600	0.228 *	11	0	581	1600	0.190 *	43	624	1600	0.228 *
EB Left	479	2880	0.166 *	-32	447	2880	0.155 *	0	447	2880	0.155 *	10	10	499	2880	0.173 *	-32	467	2880	0.162 *
EB Thru	738	3200	0.304	22	760	3200	0.311	0	760	3200	0.311	15	33	786	3200	0.321	22	808	3200	0.328
EB Right	235	0	0.000	0	235	0	0.000	0	235	0	0.000	5	0	240	0	0.000	0	240	0	0.000
WB Left	143	1600	0.089	0	143	1600	0.089	0	143	1600	0.089	3	0	146	1600	0.091	0	146	1600	0.091
WB Thru	829	3200	0.259 *	22	851	3200	0.266 *	0	851	3200	0.266 *	17	32	878	3200	0.274 *	22	900	3200	0.281 *
WB Right [4]	122	1600	0.076	0	122	1600	0.076	0	122	1600	0.076	2	0	124	1600	0.078	0	124	1600	0.078
Yellow Allowance			0.100 *				0.100 *				0.100 *					0.100 *				0.100 *
ICU			0.825				0.859				0.859					0.857				0.891
LOS			D				D				D					D				D

** Key conflicting movement as a part of ICU*
1 Counts conducted by: NDS
2 Capacity expressed in veh/hour of green
3 The southbound right-turn lane has an overlapping phase with the eastbound left-turn phase.
4 No right-turn on red.



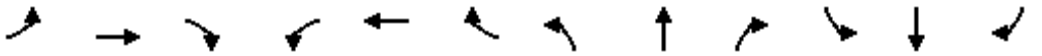
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	946	425	213	1535	4	489	1	199	0	0	4
Future Volume (vph)	3	946	425	213	1535	4	489	1	199	0	0	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5083		1681	1686	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5083		1681	1686	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	1028	462	232	1668	4	532	1	216	0	0	4
RTOR Reduction (vph)	0	0	165	0	0	0	0	0	161	0	0	2
Lane Group Flow (vph)	3	1028	297	232	1672	0	266	267	55	0	0	2
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	1.8	55.7	28.9	20.9	74.8		28.9	28.9	28.9			74.8
Effective Green, g (s)	1.8	55.7	28.9	20.9	74.8		28.9	28.9	28.9			74.8
Actuated g/C Ratio	0.02	0.46	0.24	0.17	0.62		0.24	0.24	0.24			0.62
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	25	2360	381	297	3168		404	406	381			1004
v/s Ratio Prot	0.00	0.20	c0.19	c0.14	c0.33		0.16	0.16				
v/s Ratio Perm									0.03			0.00
v/c Ratio	0.12	0.44	0.78	0.78	0.53		0.66	0.66	0.14			0.00
Uniform Delay, d1	58.3	21.6	42.6	47.4	12.7		41.1	41.1	35.8			8.5
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.43	1.43	6.47			1.00
Incremental Delay, d2	2.1	0.6	9.6	12.5	0.6		2.5	2.5	0.1			0.0
Delay (s)	60.5	22.2	52.2	59.9	13.3		61.1	61.0	231.8			8.5
Level of Service	E	C	D	E	B		E	E	F			A
Approach Delay (s)		31.5			19.0			110.3			8.5	
Approach LOS		C			B			F			A	

Intersection Summary			
HCM 2000 Control Delay	40.0	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.66		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	65.0%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			



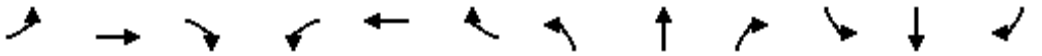
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	1229	346	168	1170	22	515	12	266	0	0	45
Future Volume (vph)	21	1229	346	168	1170	22	515	12	266	0	0	45
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5071		1681	1689	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5071		1681	1689	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	23	1336	376	183	1272	24	560	13	289	0	0	49
RTOR Reduction (vph)	0	0	104	0	1	0	0	0	200	0	0	20
Lane Group Flow (vph)	23	1336	272	183	1295	0	286	287	89	0	0	29
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	5.5	58.3	29.1	18.1	70.9		29.1	29.1	29.1			70.9
Effective Green, g (s)	5.5	58.3	29.1	18.1	70.9		29.1	29.1	29.1			70.9
Actuated g/C Ratio	0.05	0.49	0.24	0.15	0.59		0.24	0.24	0.24			0.59
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	78	2470	383	258	2996		407	409	383			951
v/s Ratio Prot	0.01	c0.26	c0.17	c0.11	0.26		0.17	0.17				
v/s Ratio Perm									0.06			0.02
v/c Ratio	0.29	0.54	0.71	0.71	0.43		0.70	0.70	0.23			0.03
Uniform Delay, d1	55.4	21.5	41.6	48.4	13.5		41.5	41.5	36.5			10.2
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.22	1.22	3.54			1.00
Incremental Delay, d2	2.1	0.9	6.1	8.6	0.5		5.1	5.0	0.3			0.1
Delay (s)	57.5	22.4	47.7	57.1	13.9		55.8	55.7	129.5			10.3
Level of Service	E	C	D	E	B		E	E	F			B
Approach Delay (s)		28.3			19.3			80.5			10.3	
Approach LOS		C			B			F			B	

Intersection Summary			
HCM 2000 Control Delay	35.8	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.62		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	59.7%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			



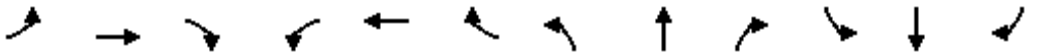
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	946	430	173	1535	4	493	1	201	0	0	4
Future Volume (vph)	3	946	430	173	1535	4	493	1	201	0	0	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5083		1681	1686	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5083		1681	1686	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	1028	467	188	1668	4	536	1	218	0	0	4
RTOR Reduction (vph)	0	0	167	0	0	0	0	0	162	0	0	2
Lane Group Flow (vph)	3	1028	300	188	1672	0	268	269	56	0	0	2
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	1.8	58.1	29.0	18.4	74.7		29.0	29.0	29.0			74.7
Effective Green, g (s)	1.8	58.1	29.0	18.4	74.7		29.0	29.0	29.0			74.7
Actuated g/C Ratio	0.02	0.48	0.24	0.15	0.62		0.24	0.24	0.24			0.62
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	25	2461	382	262	3164		406	407	382			1002
v/s Ratio Prot	0.00	0.20	c0.19	c0.11	c0.33		0.16	0.16				
v/s Ratio Perm									0.04			0.00
v/c Ratio	0.12	0.42	0.79	0.72	0.53		0.66	0.66	0.15			0.00
Uniform Delay, d1	58.3	20.0	42.6	48.3	12.7		41.1	41.1	35.8			8.6
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.41	1.41	6.10			1.00
Incremental Delay, d2	2.1	0.5	10.2	9.0	0.6		2.7	2.7	0.1			0.0
Delay (s)	60.5	20.5	52.8	57.4	13.4		60.4	60.4	218.4			8.6
Level of Service	E	C	D	E	B		E	E	F			A
Approach Delay (s)		30.7			17.8			106.0			8.6	
Approach LOS		C			B			F			A	

Intersection Summary			
HCM 2000 Control Delay	38.7	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.64		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	65.1%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			



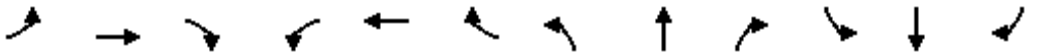
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	1229	367	203	1170	22	526	12	244	0	0	45
Future Volume (vph)	21	1229	367	203	1170	22	526	12	244	0	0	45
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5071		1681	1689	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5071		1681	1689	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	23	1336	399	221	1272	24	572	13	265	0	0	49
RTOR Reduction (vph)	0	0	109	0	1	0	0	0	179	0	0	20
Lane Group Flow (vph)	23	1336	290	221	1295	0	292	293	86	0	0	29
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	5.5	55.8	29.4	20.3	70.6		29.4	29.4	29.4			70.6
Effective Green, g (s)	5.5	55.8	29.4	20.3	70.6		29.4	29.4	29.4			70.6
Actuated g/C Ratio	0.05	0.46	0.24	0.17	0.59		0.24	0.24	0.24			0.59
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	78	2364	387	289	2983		411	413	387			947
v/s Ratio Prot	0.01	c0.26	c0.18	c0.13	0.26		0.17	0.17				
v/s Ratio Perm									0.05			0.02
v/c Ratio	0.29	0.57	0.75	0.76	0.43		0.71	0.71	0.22			0.03
Uniform Delay, d1	55.4	23.3	41.9	47.6	13.7		41.4	41.4	36.2			10.4
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.27	1.27	4.17			1.00
Incremental Delay, d2	2.1	1.0	7.7	11.4	0.5		3.6	3.5	0.2			0.1
Delay (s)	57.5	24.3	49.6	59.0	14.1		56.1	55.9	151.1			10.4
Level of Service	E	C	D	E	B		E	E	F			B
Approach Delay (s)		30.5			20.7			85.6			10.4	
Approach LOS		C			C			F			B	

Intersection Summary			
HCM 2000 Control Delay	37.9	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.65		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	62.0%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			



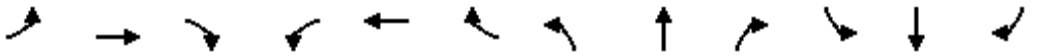
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	996	451	217	1600	4	520	1	203	0	0	4
Future Volume (vph)	3	996	451	217	1600	4	520	1	203	0	0	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5084		1681	1686	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5084		1681	1686	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	1083	490	236	1739	4	565	1	221	0	0	4
RTOR Reduction (vph)	0	0	164	0	0	0	0	0	152	0	0	2
Lane Group Flow (vph)	3	1083	326	236	1743	0	282	284	69	0	0	2
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	1.8	54.1	30.3	21.1	73.4		30.3	30.3	30.3			73.4
Effective Green, g (s)	1.8	54.1	30.3	21.1	73.4		30.3	30.3	30.3			73.4
Actuated g/C Ratio	0.02	0.45	0.25	0.18	0.61		0.25	0.25	0.25			0.61
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	25	2292	399	300	3109		424	425	399			985
v/s Ratio Prot	0.00	0.21	c0.21	c0.14	c0.34		0.17	0.17				
v/s Ratio Perm									0.04			0.00
v/c Ratio	0.12	0.47	0.82	0.79	0.56		0.67	0.67	0.17			0.00
Uniform Delay, d1	58.3	23.0	42.2	47.3	13.8		40.3	40.3	35.0			9.1
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.45	1.44	5.37			1.00
Incremental Delay, d2	2.1	0.7	12.1	12.7	0.7		2.1	2.2	0.1			0.0
Delay (s)	60.5	23.7	54.4	60.0	14.5		60.4	60.4	188.3			9.1
Level of Service	E	C	D	E	B		E	E	F			A
Approach Delay (s)		33.3			19.9			96.3			9.1	
Approach LOS		C			B			F			A	

Intersection Summary			
HCM 2000 Control Delay	38.6	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.69		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	67.1%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			



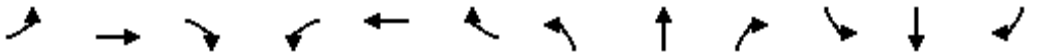
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	1284	369	171	1223	22	540	12	271	0	0	46
Future Volume (vph)	21	1284	369	171	1223	22	540	12	271	0	0	46
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5072		1681	1689	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5072		1681	1689	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	23	1396	401	186	1329	24	587	13	295	0	0	50
RTOR Reduction (vph)	0	0	105	0	1	0	0	0	193	0	0	21
Lane Group Flow (vph)	23	1396	296	186	1352	0	299	301	102	0	0	29
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	5.5	57.2	30.0	18.3	70.0		30.0	30.0	30.0			70.0
Effective Green, g (s)	5.5	57.2	30.0	18.3	70.0		30.0	30.0	30.0			70.0
Actuated g/C Ratio	0.05	0.48	0.25	0.15	0.58		0.25	0.25	0.25			0.58
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	78	2423	395	260	2958		420	422	395			939
v/s Ratio Prot	0.01	c0.27	c0.19	c0.11	0.27		0.18	0.18				
v/s Ratio Perm									0.06			0.02
v/c Ratio	0.29	0.58	0.75	0.72	0.46		0.71	0.71	0.26			0.03
Uniform Delay, d1	55.4	22.7	41.5	48.4	14.2		41.1	41.1	36.1			10.6
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.29	1.29	4.17			1.00
Incremental Delay, d2	2.1	1.0	7.6	9.0	0.5		3.3	3.3	0.2			0.1
Delay (s)	57.5	23.7	49.1	57.4	14.7		56.2	56.3	150.6			10.7
Level of Service	E	C	D	E	B		E	E	F			B
Approach Delay (s)		29.7			19.9			87.3			10.7	
Approach LOS		C			B			F			B	

Intersection Summary			
HCM 2000 Control Delay	37.9	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.65		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	61.6%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	996	456	177	1600	4	524	1	205	0	0	4
Future Volume (vph)	3	996	456	177	1600	4	524	1	205	0	0	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5084		1681	1686	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5084		1681	1686	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	1083	496	192	1739	4	570	1	223	0	0	4
RTOR Reduction (vph)	0	0	166	0	0	0	0	0	153	0	0	2
Lane Group Flow (vph)	3	1083	330	192	1743	0	285	286	70	0	0	2
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	1.8	56.5	30.4	18.6	73.3		30.4	30.4	30.4			73.3
Effective Green, g (s)	1.8	56.5	30.4	18.6	73.3		30.4	30.4	30.4			73.3
Actuated g/C Ratio	0.02	0.47	0.25	0.16	0.61		0.25	0.25	0.25			0.61
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	25	2394	401	265	3105		425	427	401			984
v/s Ratio Prot	0.00	0.21	c0.21	c0.11	c0.34		0.17	0.17				
v/s Ratio Perm									0.04			0.00
v/c Ratio	0.12	0.45	0.82	0.72	0.56		0.67	0.67	0.17			0.00
Uniform Delay, d1	58.3	21.3	42.3	48.3	13.8		40.3	40.3	35.0			9.1
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.43	1.43	5.10			1.00
Incremental Delay, d2	2.1	0.6	12.8	9.4	0.7		2.4	2.3	0.1			0.0
Delay (s)	60.5	22.0	55.1	57.7	14.6		59.9	59.7	178.7			9.1
Level of Service	E	C	E	E	B		E	E	F			A
Approach Delay (s)		32.4			18.8			93.2			9.1	
Approach LOS		C			B			F			A	

Intersection Summary			
HCM 2000 Control Delay	37.5	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.68		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	67.2%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	1284	390	206	1223	22	551	12	249	0	0	46
Future Volume (vph)	21	1284	390	206	1223	22	551	12	249	0	0	46
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	11	12	12	11	12	12	12	12	12	12	12	12
Total Lost time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91		0.95	0.95	1.00			1.00
Frt	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85			0.86
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (prot)	1711	5085	1583	1711	5072		1681	1689	1583			1611
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.95	1.00			1.00
Satd. Flow (perm)	1711	5085	1583	1711	5072		1681	1689	1583			1611
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	23	1396	424	224	1329	24	599	13	271	0	0	50
RTOR Reduction (vph)	0	0	111	0	1	0	0	0	173	0	0	21
Lane Group Flow (vph)	23	1396	313	224	1352	0	305	307	98	0	0	29
Turn Type	Prot	NA	Over	Prot	NA		Split	NA	Perm			Perm
Protected Phases	5	2	8	1	6		8	8				
Permitted Phases									8			6
Actuated Green, G (s)	5.5	54.7	30.3	20.5	69.7		30.3	30.3	30.3			69.7
Effective Green, g (s)	5.5	54.7	30.3	20.5	69.7		30.3	30.3	30.3			69.7
Actuated g/C Ratio	0.05	0.46	0.25	0.17	0.58		0.25	0.25	0.25			0.58
Clearance Time (s)	4.0	5.5	5.0	4.0	5.5		5.0	5.0	5.0			5.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0			3.0
Lane Grp Cap (vph)	78	2317	399	292	2945		424	426	399			935
v/s Ratio Prot	0.01	c0.27	c0.20	c0.13	0.27		0.18	0.18				
v/s Ratio Perm									0.06			0.02
v/c Ratio	0.29	0.60	0.79	0.77	0.46		0.72	0.72	0.24			0.03
Uniform Delay, d1	55.4	24.5	41.8	47.5	14.4		41.0	41.0	35.7			10.7
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.28	1.28	3.83			1.00
Incremental Delay, d2	2.1	1.2	9.8	11.4	0.5		3.2	3.3	0.2			0.1
Delay (s)	57.5	25.7	51.6	58.9	14.9		55.6	55.7	136.9			10.8
Level of Service	E	C	D	E	B		E	E	F			B
Approach Delay (s)		32.0			21.1			80.6			10.8	
Approach LOS		C			C			F			B	

Intersection Summary			
HCM 2000 Control Delay	37.7	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.69		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	63.9%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	62	23	28	678	674	31
Future Vol, veh/h	62	23	28	678	674	31
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	67	25	30	737	733	34

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1179	384	767	0	-	0
Stage 1	750	-	-	-	-	-
Stage 2	429	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	183	614	842	-	-	-
Stage 1	427	-	-	-	-	-
Stage 2	624	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	176	614	842	-	-	-
Mov Cap-2 Maneuver	302	-	-	-	-	-
Stage 1	412	-	-	-	-	-
Stage 2	624	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	18.9	0.4	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	842	-	350	-	-
HCM Lane V/C Ratio	0.036	-	0.264	-	-
HCM Control Delay (s)	9.4	-	18.9	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	1	-	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	63	49	24	765	506	27
Future Vol, veh/h	63	49	24	765	506	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	68	53	26	832	550	29

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1033	290	579	0	-	0
Stage 1	565	-	-	-	-	-
Stage 2	468	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	228	707	991	-	-	-
Stage 1	532	-	-	-	-	-
Stage 2	597	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	222	707	991	-	-	-
Mov Cap-2 Maneuver	354	-	-	-	-	-
Stage 1	518	-	-	-	-	-
Stage 2	597	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.8	0.3	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	991	-	453	-	-
HCM Lane V/C Ratio	0.026	-	0.269	-	-
HCM Control Delay (s)	8.7	-	15.8	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	1.1	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	66	32	57	680	681	0
Future Vol, veh/h	66	32	57	680	681	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	72	35	62	739	740	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1234	370	740	0	-	0
Stage 1	740	-	-	-	-	-
Stage 2	494	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	169	627	862	-	-	-
Stage 1	433	-	-	-	-	-
Stage 2	579	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	157	627	862	-	-	-
Mov Cap-2 Maneuver	285	-	-	-	-	-
Stage 1	402	-	-	-	-	-
Stage 2	579	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	19.9	0.7	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	862	-	347	-	-
HCM Lane V/C Ratio	0.072	-	0.307	-	-
HCM Control Delay (s)	9.5	-	19.9	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.2	-	1.3	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	44	84	58	774	514	74
Future Vol, veh/h	44	84	58	774	514	74
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	48	91	63	841	559	80

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1146	320	639	0	-	0
Stage 1	599	-	-	-	-	-
Stage 2	547	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	193	676	941	-	-	-
Stage 1	511	-	-	-	-	-
Stage 2	544	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	180	676	941	-	-	-
Mov Cap-2 Maneuver	314	-	-	-	-	-
Stage 1	477	-	-	-	-	-
Stage 2	544	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.4	0.6	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	941	-	484	-	-
HCM Lane V/C Ratio	0.067	-	0.287	-	-
HCM Control Delay (s)	9.1	-	15.4	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.2	-	1.2	-	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	63	23	29	713	705	32
Future Vol, veh/h	63	23	29	713	705	32
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	68	25	32	775	766	35

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1236	401	801	0	-	0
Stage 1	784	-	-	-	-	-
Stage 2	452	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	168	599	818	-	-	-
Stage 1	410	-	-	-	-	-
Stage 2	608	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	161	599	818	-	-	-
Mov Cap-2 Maneuver	287	-	-	-	-	-
Stage 1	394	-	-	-	-	-
Stage 2	608	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	20	0.4	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	818	-	333	-	-
HCM Lane V/C Ratio	0.039	-	0.281	-	-
HCM Control Delay (s)	9.6	-	20	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	1.1	-	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	64	50	24	795	532	28
Future Vol, veh/h	64	50	24	795	532	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	70	54	26	864	578	30

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1077	304	608	0	-	0
Stage 1	593	-	-	-	-	-
Stage 2	484	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	214	692	966	-	-	-
Stage 1	515	-	-	-	-	-
Stage 2	585	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	208	692	966	-	-	-
Mov Cap-2 Maneuver	340	-	-	-	-	-
Stage 1	501	-	-	-	-	-
Stage 2	585	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.4	0.3	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	966	-	438	-	-
HCM Lane V/C Ratio	0.027	-	0.283	-	-
HCM Control Delay (s)	8.8	-	16.4	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	1.1	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	67	32	58	715	712	0
Future Vol, veh/h	67	32	58	715	712	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	73	35	63	777	774	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1289	387	774	0	-	0
Stage 1	774	-	-	-	-	-
Stage 2	515	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	155	611	837	-	-	-
Stage 1	415	-	-	-	-	-
Stage 2	565	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	143	611	837	-	-	-
Mov Cap-2 Maneuver	271	-	-	-	-	-
Stage 1	384	-	-	-	-	-
Stage 2	565	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	21.1	0.7	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	837	-	330	-	-
HCM Lane V/C Ratio	0.075	-	0.326	-	-
HCM Control Delay (s)	9.7	-	21.1	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.2	-	1.4	-	-

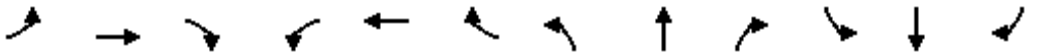
Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	45	85	58	804	540	75
Future Vol, veh/h	45	85	58	804	540	75
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	75	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	49	92	63	874	587	82

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1191	335	669	0	-	0
Stage 1	628	-	-	-	-	-
Stage 2	563	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	180	661	917	-	-	-
Stage 1	494	-	-	-	-	-
Stage 2	534	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	168	661	917	-	-	-
Mov Cap-2 Maneuver	302	-	-	-	-	-
Stage 1	460	-	-	-	-	-
Stage 2	534	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16	0.6	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	917	-	468	-	-
HCM Lane V/C Ratio	0.069	-	0.302	-	-
HCM Control Delay (s)	9.2	-	16	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.2	-	1.3	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	37	547	75	93	333	35	158	642	65	16	607	72
Future Volume (veh/h)	37	547	75	93	333	35	158	642	65	16	607	72
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	40	595	0	101	362	38	172	698	71	17	660	78
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	52	1983		127	1949	203	113	801	81	88	874	435
Arrive On Green	0.03	0.56	0.00	0.07	0.60	0.60	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3247	339	720	3257	331	700	3554	1585
Grp Volume(v), veh/h	40	595	0	101	197	203	172	381	388	17	660	78
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1809	720	1777	1811	700	1777	1585
Q Serve(g_s), s	2.7	10.7	0.0	6.7	6.0	6.1	8.9	24.7	24.7	2.9	20.6	4.5
Cycle Q Clear(g_c), s	2.7	10.7	0.0	6.7	6.0	6.1	29.5	24.7	24.7	27.6	20.6	4.5
Prop In Lane	1.00		1.00	1.00		0.19	1.00		0.18	1.00		1.00
Lane Grp Cap(c), veh/h	52	1983		127	1067	1086	113	437	445	88	874	435
V/C Ratio(X)	0.78	0.30		0.80	0.18	0.19	1.52	0.87	0.87	0.19	0.76	0.18
Avail Cap(c_a), veh/h	223	1983		312	1067	1086	113	437	445	88	874	435
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.9	14.1	0.0	54.9	10.8	10.8	57.9	43.4	43.4	56.7	41.9	33.2
Incr Delay (d2), s/veh	21.6	0.4	0.0	10.7	0.4	0.4	272.0	19.8	19.6	1.1	3.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.7	7.5	0.0	6.0	4.2	4.3	20.7	18.7	19.0	1.0	14.4	3.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	79.5	14.5	0.0	65.5	11.2	11.2	329.9	63.2	63.0	57.7	45.7	33.4
LnGrp LOS	E	B		E	B	B	F	E	E	E	D	C
Approach Vol, veh/h		635			501			941			755	
Approach Delay, s/veh		18.6			22.1			111.9			44.7	
Approach LOS		B			C			F			D	

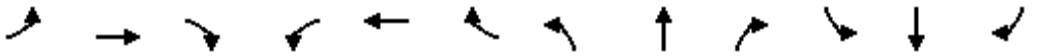
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.6	72.4		35.0	7.5	77.5		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	8.7	12.7		29.6	4.7	8.1		31.5				
Green Ext Time (p_c), s	0.2	4.2		0.0	0.0	2.4		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		57.2	
HCM 6th LOS		E	

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	141	464	104	62	357	48	105	382	98	15	322	166
Future Volume (veh/h)	141	464	104	62	357	48	105	382	98	15	322	166
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	153	504	0	67	388	52	114	415	107	16	350	180
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	180	2062		87	1664	221	203	689	176	160	874	550
Arrive On Green	0.10	0.58	0.00	0.05	0.53	0.53	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3152	420	874	2803	716	880	3554	1585
Grp Volume(v), veh/h	153	504	0	67	218	222	114	262	260	16	350	180
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1795	874	1777	1742	880	1777	1585
Q Serve(g_s), s	10.1	8.3	0.0	4.5	7.9	8.0	15.1	15.6	15.9	2.0	9.9	10.0
Cycle Q Clear(g_c), s	10.1	8.3	0.0	4.5	7.9	8.0	25.0	15.6	15.9	17.9	9.9	10.0
Prop In Lane	1.00		1.00	1.00		0.23	1.00		0.41	1.00		1.00
Lane Grp Cap(c), veh/h	180	2062		87	938	947	203	437	428	160	874	550
V/C Ratio(X)	0.85	0.24		0.77	0.23	0.23	0.56	0.60	0.61	0.10	0.40	0.33
Avail Cap(c_a), veh/h	223	2062		312	938	947	203	437	428	160	874	550
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.0	12.3	0.0	56.4	15.2	15.3	48.3	40.0	40.1	48.0	37.9	28.9
Incr Delay (d2), s/veh	21.6	0.3	0.0	13.3	0.6	0.6	10.7	5.9	6.2	0.3	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	9.4	5.8	0.0	4.1	5.8	5.9	6.9	11.8	11.8	0.8	7.7	6.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	74.6	12.6	0.0	69.7	15.8	15.8	59.0	45.9	46.4	48.3	38.2	29.2
LnGrp LOS	E	B		E	B	B	E	D	D	D	D	C
Approach Vol, veh/h		657			507			636			546	
Approach Delay, s/veh		27.0			23.0			48.4			35.5	
Approach LOS		C			C			D			D	

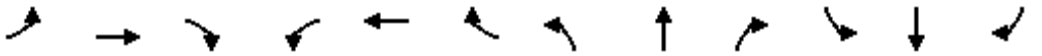
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.9	75.1		35.0	16.2	68.8		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	6.5	10.3		19.9	12.1	10.0		27.0				
Green Ext Time (p_c), s	0.1	3.5		2.0	0.1	2.6		0.9				

Intersection Summary		
HCM 6th Ctrl Delay	33.9	
HCM 6th LOS	C	

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	39	547	77	93	257	56	151	649	65	23	609	79
Future Volume (veh/h)	39	547	77	93	257	56	151	649	65	23	609	79
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	42	595	0	101	279	61	164	705	71	25	662	86
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	54	1983		127	1741	375	112	801	81	86	874	438
Arrive On Green	0.03	0.56	0.00	0.07	0.60	0.60	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	2909	626	713	3260	328	695	3554	1585
Grp Volume(v), veh/h	42	595	0	101	169	171	164	384	392	25	662	86
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1758	713	1777	1811	695	1777	1585
Q Serve(g_s), s	2.8	10.7	0.0	6.7	5.1	5.2	8.8	25.0	25.0	4.3	20.7	5.0
Cycle Q Clear(g_c), s	2.8	10.7	0.0	6.7	5.1	5.2	29.5	25.0	25.0	29.3	20.7	5.0
Prop In Lane	1.00		1.00	1.00		0.36	1.00		0.18	1.00		1.00
Lane Grp Cap(c), veh/h	54	1983		127	1064	1052	112	437	445	86	874	438
V/C Ratio(X)	0.77	0.30		0.80	0.16	0.16	1.46	0.88	0.88	0.29	0.76	0.20
Avail Cap(c_a), veh/h	223	1983		312	1064	1052	112	437	445	86	874	438
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.8	14.1	0.0	54.9	10.7	10.7	58.0	43.5	43.6	57.7	41.9	33.2
Incr Delay (d2), s/veh	20.5	0.4	0.0	10.7	0.3	0.3	248.1	20.6	20.5	1.8	3.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.8	7.5	0.0	6.0	3.5	3.6	19.3	19.0	19.3	1.4	14.5	3.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.3	14.5	0.0	65.5	11.0	11.0	306.0	64.2	64.0	59.5	45.8	33.4
LnGrp LOS	E	B		E	B	B	F	E	E	E	D	C
Approach Vol, veh/h		637			441			940			773	
Approach Delay, s/veh		18.7			23.5			106.3			44.9	
Approach LOS		B			C			F			D	

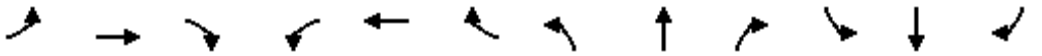
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.6	72.4		35.0	7.7	77.3		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	8.7	12.7		31.3	4.8	7.2		31.5				
Green Ext Time (p_c), s	0.2	4.2		0.0	0.0	2.0		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		56.2
HCM 6th LOS		E

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	201	545	105	62	404	73	124	543	118	46	459	174
Future Volume (veh/h)	201	545	105	62	404	73	124	543	118	46	459	174
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	218	592	0	67	439	79	135	590	128	50	499	189
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	223	2062		87	1519	271	153	714	155	99	874	588
Arrive On Green	0.13	0.58	0.00	0.05	0.50	0.50	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3012	538	755	2905	629	734	3554	1585
Grp Volume(v), veh/h	218	592	0	67	258	260	135	360	358	50	499	189
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1773	755	1777	1757	734	1777	1585
Q Serve(g_s), s	14.6	10.1	0.0	4.5	10.1	10.2	14.7	23.0	23.1	6.4	14.8	10.2
Cycle Q Clear(g_c), s	14.6	10.1	0.0	4.5	10.1	10.2	29.5	23.0	23.1	29.5	14.8	10.2
Prop In Lane	1.00		1.00	1.00		0.30	1.00		0.36	1.00		1.00
Lane Grp Cap(c), veh/h	223	2062		87	896	894	153	437	432	99	874	588
V/C Ratio(X)	0.98	0.29		0.77	0.29	0.29	0.89	0.82	0.83	0.51	0.57	0.32
Avail Cap(c_a), veh/h	223	2062		312	896	894	153	437	432	99	874	588
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.97	0.97	0.97	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.3	12.7	0.0	56.4	17.3	17.3	55.0	42.8	42.9	57.5	39.7	27.0
Incr Delay (d2), s/veh	54.2	0.4	0.0	13.3	0.8	0.8	46.4	15.7	16.1	4.1	0.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.9	7.0	0.0	4.1	7.5	7.6	10.0	17.3	17.2	2.9	10.7	6.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	106.5	13.0	0.0	69.7	18.1	18.1	101.4	58.5	59.0	61.6	40.6	27.3
LnGrp LOS	F	B		E	B	B	F	E	E	E	D	C
Approach Vol, veh/h		810			585			853			738	
Approach Delay, s/veh		38.2			24.0			65.5			38.6	
Approach LOS		D			C			E			D	

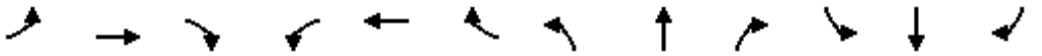
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.9	75.1		35.0	19.0	66.0		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	6.5	12.1		31.5	16.6	12.2		31.5				
Green Ext Time (p_c), s	0.1	4.2		0.0	0.0	3.2		0.0				

Intersection Summary		
HCM 6th Ctrl Delay	43.3	
HCM 6th LOS	D	

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	558	77	121	340	36	161	676	95	16	636	73
Future Volume (veh/h)	38	558	77	121	340	36	161	676	95	16	636	73
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	41	607	0	132	370	39	175	735	103	17	691	79
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	53	1916		161	1946	204	105	769	108	69	874	437
Arrive On Green	0.03	0.54	0.00	0.09	0.60	0.60	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3246	340	699	3130	438	656	3554	1585
Grp Volume(v), veh/h	41	607	0	132	202	207	175	417	421	17	691	79
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1809	699	1777	1791	656	1777	1585
Q Serve(g_s), s	2.7	11.4	0.0	8.7	6.1	6.2	7.7	27.8	27.8	1.7	21.8	4.6
Cycle Q Clear(g_c), s	2.7	11.4	0.0	8.7	6.1	6.2	29.5	27.8	27.8	29.5	21.8	4.6
Prop In Lane	1.00		1.00	1.00		0.19	1.00		0.24	1.00		1.00
Lane Grp Cap(c), veh/h	53	1916		161	1065	1085	105	437	440	69	874	437
V/C Ratio(X)	0.78	0.32		0.82	0.19	0.19	1.67	0.95	0.96	0.25	0.79	0.18
Avail Cap(c_a), veh/h	223	1916		312	1065	1085	105	437	440	69	874	437
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.94	0.94	0.94	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.8	15.4	0.0	53.6	10.9	10.9	58.4	44.6	44.6	59.5	42.4	33.1
Incr Delay (d2), s/veh	21.0	0.4	0.0	10.0	0.4	0.4	338.9	31.9	31.9	1.8	5.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.7	8.0	0.0	7.7	4.3	4.4	22.8	22.0	22.2	1.0	15.2	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.9	15.8	0.0	63.6	11.2	11.3	397.3	76.5	76.5	61.3	47.3	33.3
LnGrp LOS	E	B		E	B	B	F	E	E	E	D	C
Approach Vol, veh/h		648			541			1013			787	
Approach Delay, s/veh		19.8			24.0			131.9			46.2	
Approach LOS		B			C			F			D	

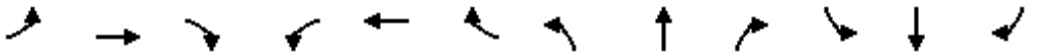
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.8	70.2		35.0	7.6	77.4		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	10.7	13.4		31.5	4.7	8.2		31.5				
Green Ext Time (p_c), s	0.2	4.3		0.0	0.0	2.4		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		65.5
HCM 6th LOS		E

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	196	604	106	90	364	49	107	561	146	20	475	169
Future Volume (veh/h)	196	604	106	90	364	49	107	561	146	20	475	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	213	657	0	98	396	53	116	610	159	22	516	184
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	223	1989		124	1589	211	148	686	178	84	874	588
Arrive On Green	0.13	0.56	0.00	0.07	0.50	0.50	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3153	419	746	2791	726	700	3554	1585
Grp Volume(v), veh/h	213	657	0	98	222	227	116	388	381	22	516	184
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1795	746	1777	1740	700	1777	1585
Q Serve(g_s), s	14.3	12.0	0.0	6.5	8.5	8.6	14.1	25.3	25.4	3.8	15.4	9.9
Cycle Q Clear(g_c), s	14.3	12.0	0.0	6.5	8.5	8.6	29.5	25.3	25.4	29.1	15.4	9.9
Prop In Lane	1.00		1.00	1.00		0.23	1.00		0.42	1.00		1.00
Lane Grp Cap(c), veh/h	223	1989		124	896	905	148	437	428	84	874	588
V/C Ratio(X)	0.96	0.33		0.79	0.25	0.25	0.78	0.89	0.89	0.26	0.59	0.31
Avail Cap(c_a), veh/h	223	1989		312	896	905	148	437	428	84	874	588
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.97	0.97	0.97	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.2	14.3	0.0	55.0	16.9	16.9	54.7	43.7	43.7	57.8	39.9	26.9
Incr Delay (d2), s/veh	48.0	0.4	0.0	10.8	0.7	0.7	32.3	22.1	22.8	1.6	1.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	14.2	8.2	0.0	5.8	6.3	6.5	8.3	19.4	19.2	1.3	11.0	6.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	100.2	14.7	0.0	65.8	17.5	17.6	86.9	65.7	66.5	59.4	41.0	27.2
LnGrp LOS	F	B		E	B	B	F	E	E	E	D	C
Approach Vol, veh/h		870			547			885			722	
Approach Delay, s/veh		35.6			26.2			68.8			38.0	
Approach LOS		D			C			E			D	

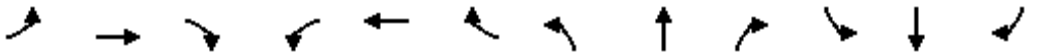
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.3	72.7		35.0	19.0	66.0		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	8.5	14.0		31.1	16.3	10.6		31.5				
Green Ext Time (p_c), s	0.2	4.7		0.0	0.0	2.7		0.0				

Intersection Summary		
HCM 6th Ctrl Delay	44.2	
HCM 6th LOS	D	

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	40	558	79	121	264	57	154	683	95	23	638	80
Future Volume (veh/h)	40	558	79	121	264	57	154	683	95	23	638	80
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	43	607	0	132	287	62	167	742	103	25	693	87
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	56	1916		161	1743	371	104	770	107	68	874	439
Arrive On Green	0.03	0.54	0.00	0.09	0.60	0.60	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	2915	620	693	3134	435	652	3554	1585
Grp Volume(v), veh/h	43	607	0	132	173	176	167	421	424	25	693	87
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1759	693	1777	1792	652	1777	1585
Q Serve(g_s), s	2.9	11.4	0.0	8.7	5.2	5.4	7.6	28.1	28.1	1.4	21.9	5.0
Cycle Q Clear(g_c), s	2.9	11.4	0.0	8.7	5.2	5.4	29.5	28.1	28.1	29.5	21.9	5.0
Prop In Lane	1.00		1.00	1.00		0.35	1.00		0.24	1.00		1.00
Lane Grp Cap(c), veh/h	56	1916		161	1063	1052	104	437	441	68	874	439
V/C Ratio(X)	0.77	0.32		0.82	0.16	0.17	1.61	0.96	0.96	0.37	0.79	0.20
Avail Cap(c_a), veh/h	223	1916		312	1063	1052	104	437	441	68	874	439
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.94	0.94	0.94	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.7	15.4	0.0	53.6	10.7	10.8	58.4	44.7	44.7	59.8	42.4	33.2
Incr Delay (d2), s/veh	20.0	0.4	0.0	10.0	0.3	0.3	312.4	33.4	33.4	3.3	5.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.9	8.0	0.0	7.7	3.6	3.7	21.3	22.4	22.6	1.5	15.3	3.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.7	15.8	0.0	63.6	11.1	11.1	370.8	78.1	78.1	63.1	47.5	33.4
LnGrp LOS	E	B		E	B	B	F	E	E	E	D	C
Approach Vol, veh/h		650			481			1012			805	
Approach Delay, s/veh		19.9			25.5			126.4			46.4	
Approach LOS		B			C			F			D	

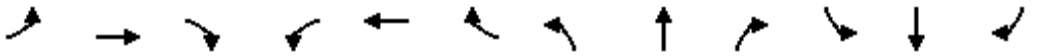
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.8	70.2		35.0	7.7	77.3		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	10.7	13.4		31.5	4.9	7.4		31.5				
Green Ext Time (p_c), s	0.2	4.3		0.0	0.0	2.1		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		64.6	
HCM 6th LOS		E	

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	205	557	107	90	411	74	126	569	146	46	484	177
Future Volume (veh/h)	205	557	107	90	411	74	126	569	146	46	484	177
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	223	605	0	98	447	80	137	618	159	50	526	192
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	223	1989		124	1520	270	144	688	177	82	874	588
Arrive On Green	0.13	0.56	0.00	0.07	0.50	0.50	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3015	536	734	2799	719	694	3554	1585
Grp Volume(v), veh/h	223	605	0	98	262	265	137	392	385	50	526	192
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1774	734	1777	1741	694	1777	1585
Q Serve(g_s), s	15.0	10.8	0.0	6.5	10.3	10.4	13.8	25.6	25.7	3.8	15.7	10.4
Cycle Q Clear(g_c), s	15.0	10.8	0.0	6.5	10.3	10.4	29.5	25.6	25.7	29.5	15.7	10.4
Prop In Lane	1.00		1.00	1.00		0.30	1.00		0.41	1.00		1.00
Lane Grp Cap(c), veh/h	223	1989		124	896	894	144	437	428	82	874	588
V/C Ratio(X)	1.00	0.30		0.79	0.29	0.30	0.95	0.90	0.90	0.61	0.60	0.33
Avail Cap(c_a), veh/h	223	1989		312	896	894	144	437	428	82	874	588
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.97	0.97	0.97	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.5	14.0	0.0	55.0	17.3	17.3	55.8	43.8	43.8	59.2	40.1	27.0
Incr Delay (d2), s/veh	60.7	0.4	0.0	10.8	0.8	0.8	61.5	23.2	23.9	12.5	1.2	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	15.6	7.6	0.0	5.8	7.6	7.7	10.7	19.8	19.6	3.2	11.3	7.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	113.2	14.4	0.0	65.8	18.1	18.2	117.3	67.0	67.7	71.6	41.2	27.3
LnGrp LOS	F	B		E	B	B	F	E	E	E	D	C
Approach Vol, veh/h		828			625			914			768	
Approach Delay, s/veh		41.0			25.6			74.9			39.7	
Approach LOS		D			C			E			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.3	72.7		35.0	19.0	66.0		35.0				
Change Period (Y+Rc), s	4.0	5.5		5.5	4.0	5.5		5.5				
Max Green Setting (Gmax), s	21.0	54.5		29.5	15.0	60.5		29.5				
Max Q Clear Time (g_c+I1), s	8.5	12.8		31.5	17.0	12.4		31.5				
Green Ext Time (p_c), s	0.2	4.3		0.0	0.0	3.3		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		47.5
HCM 6th LOS		D

Notes

User approved changes to right turn type.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	27	40	47	5	24	84	832	94	49	619	38
Future Volume (veh/h)	34	27	40	47	5	24	84	832	94	49	619	38
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	37	29	43	51	5	26	91	904	102	53	673	41
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	160	90	133	193	15	210	593	2436	275	451	2575	157
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.76	0.76	0.76	0.76	0.76	0.76
Sat Flow, veh/h	1378	680	1009	879	117	1585	736	3219	363	560	3403	207
Grp Volume(v), veh/h	37	0	72	56	0	26	91	499	507	53	351	363
Grp Sat Flow(s),veh/h/ln	1378	0	1689	996	0	1585	736	1777	1805	560	1777	1833
Q Serve(g_s), s	2.3	0.0	3.5	3.2	0.0	1.3	3.8	8.6	8.6	3.2	5.4	5.4
Cycle Q Clear(g_c), s	9.0	0.0	3.5	6.7	0.0	1.3	9.3	8.6	8.6	11.7	5.4	5.4
Prop In Lane	1.00		0.60	0.91		1.00	1.00		0.20	1.00		0.11
Lane Grp Cap(c), veh/h	160	0	223	208	0	210	593	1345	1366	451	1345	1387
V/C Ratio(X)	0.23	0.00	0.32	0.27	0.00	0.12	0.15	0.37	0.37	0.12	0.26	0.26
Avail Cap(c_a), veh/h	414	0	535	460	0	502	593	1345	1366	451	1345	1387
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.75	0.75	0.75	0.69	0.69	0.69
Uniform Delay (d), s/veh	41.0	0.0	35.4	38.1	0.0	34.5	4.7	3.7	3.7	5.7	3.3	3.3
Incr Delay (d2), s/veh	0.7	0.0	0.8	0.7	0.0	0.3	0.4	0.6	0.6	0.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.5	0.0	2.6	2.1	0.0	0.9	0.9	3.8	3.8	0.6	2.4	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.8	0.0	36.2	38.8	0.0	34.7	5.1	4.3	4.3	6.1	3.6	3.6
LnGrp LOS	D	A	D	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		109			82			1097			767	
Approach Delay, s/veh		38.1			37.5			4.4			3.8	
Approach LOS		D			D			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		73.6		16.4		73.6		16.4				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		13.7		11.0		11.3		8.7				
Green Ext Time (p_c), s		5.3		0.4		8.4		0.3				

Intersection Summary		
HCM 6th Ctrl Delay		7.3
HCM 6th LOS		A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	47	8	61	63	12	43	40	479	50	21	468	52
Future Volume (veh/h)	47	8	61	63	12	43	40	479	50	21	468	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	51	9	66	68	13	47	43	521	54	23	509	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	166	30	218	205	33	244	659	2390	247	653	2369	264
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.74	0.74	0.74	0.74	0.74	0.74
Sat Flow, veh/h	1343	194	1421	856	215	1585	845	3251	336	838	3223	360
Grp Volume(v), veh/h	51	0	75	81	0	47	43	284	291	23	280	286
Grp Sat Flow(s),veh/h/ln	1343	0	1615	1071	0	1585	845	1777	1810	838	1777	1806
Q Serve(g_s), s	3.3	0.0	3.7	4.4	0.0	2.3	1.5	4.5	4.6	0.8	4.5	4.5
Cycle Q Clear(g_c), s	11.4	0.0	3.7	8.1	0.0	2.3	6.0	4.5	4.6	5.4	4.5	4.5
Prop In Lane	1.00		0.88	0.84		1.00	1.00		0.19	1.00		0.20
Lane Grp Cap(c), veh/h	166	0	248	238	0	244	659	1306	1331	653	1306	1327
V/C Ratio(X)	0.31	0.00	0.30	0.34	0.00	0.19	0.07	0.22	0.22	0.04	0.21	0.22
Avail Cap(c_a), veh/h	385	0	511	465	0	502	659	1306	1331	653	1306	1327
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.83	0.83	0.83	0.95	0.95	0.95
Uniform Delay (d), s/veh	41.0	0.0	33.8	36.8	0.0	33.2	4.7	3.8	3.8	4.6	3.7	3.7
Incr Delay (d2), s/veh	1.0	0.0	0.7	0.8	0.0	0.4	0.2	0.3	0.3	0.1	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.0	0.0	2.7	3.1	0.0	1.6	0.4	2.2	2.3	0.2	2.2	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.0	0.0	34.5	37.7	0.0	33.6	4.9	4.1	4.1	4.7	4.1	4.1
LnGrp LOS	D	A	C	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		126			128			618			589	
Approach Delay, s/veh		37.5			36.2			4.1			4.1	
Approach LOS		D			D			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		71.7		18.3		71.7		18.3				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		7.4		13.4		8.0		10.1				
Green Ext Time (p_c), s		3.7		0.4		3.9		0.5				

Intersection Summary												
HCM 6th Ctrl Delay			9.8									
HCM 6th LOS			A									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	27	40	47	5	24	84	825	94	49	621	40
Future Volume (veh/h)	41	27	40	47	5	24	84	825	94	49	621	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	45	29	43	51	5	26	91	897	102	53	675	43
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	160	90	134	193	15	210	591	2433	277	453	2566	163
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.76	0.76	0.76	0.76	0.76	0.76
Sat Flow, veh/h	1378	680	1009	879	117	1585	734	3216	366	564	3392	216
Grp Volume(v), veh/h	45	0	72	56	0	26	91	496	503	53	353	365
Grp Sat Flow(s),veh/h/ln	1378	0	1689	996	0	1585	734	1777	1805	564	1777	1831
Q Serve(g_s), s	2.9	0.0	3.5	3.2	0.0	1.3	3.9	8.5	8.5	3.2	5.4	5.4
Cycle Q Clear(g_c), s	9.6	0.0	3.5	6.7	0.0	1.3	9.3	8.5	8.5	11.6	5.4	5.4
Prop In Lane	1.00		0.60	0.91		1.00	1.00		0.20	1.00		0.12
Lane Grp Cap(c), veh/h	160	0	224	208	0	210	591	1344	1365	453	1344	1385
V/C Ratio(X)	0.28	0.00	0.32	0.27	0.00	0.12	0.15	0.37	0.37	0.12	0.26	0.26
Avail Cap(c_a), veh/h	414	0	535	460	0	502	591	1344	1365	453	1344	1385
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.75	0.75	0.75	0.69	0.69	0.69
Uniform Delay (d), s/veh	41.3	0.0	35.4	38.0	0.0	34.4	4.7	3.7	3.7	5.7	3.3	3.3
Incr Delay (d2), s/veh	0.9	0.0	0.8	0.7	0.0	0.3	0.4	0.6	0.6	0.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.8	0.0	2.6	2.1	0.0	0.9	0.9	3.8	3.9	0.6	2.4	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.2	0.0	36.2	38.7	0.0	34.7	5.2	4.3	4.3	6.0	3.7	3.7
LnGrp LOS	D	A	D	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		117			82			1090			771	
Approach Delay, s/veh		38.5			37.5			4.4			3.8	
Approach LOS		D			D			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		73.6		16.4		73.6		16.4				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		13.6		11.6		11.3		8.7				
Green Ext Time (p_c), s		5.3		0.4		8.3		0.3				

Intersection Summary			
HCM 6th Ctrl Delay		7.4	
HCM 6th LOS		A	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	55	8	112	114	12	43	40	600	50	21	597	61
Future Volume (veh/h)	55	8	112	114	12	43	40	600	50	21	597	61
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	60	9	122	124	13	47	43	652	54	23	649	66
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	175	26	347	270	25	369	499	2180	180	504	2137	217
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.66	0.66	0.66	0.66	0.66	0.66
Sat Flow, veh/h	1343	110	1492	832	106	1585	736	3323	275	742	3257	331
Grp Volume(v), veh/h	60	0	131	137	0	47	43	348	358	23	354	361
Grp Sat Flow(s),veh/h/ln	1343	0	1602	938	0	1585	736	1777	1821	742	1777	1811
Q Serve(g_s), s	3.9	0.0	6.1	8.5	0.0	2.1	2.4	7.5	7.6	1.2	7.7	7.7
Cycle Q Clear(g_c), s	18.5	0.0	6.1	14.6	0.0	2.1	10.1	7.5	7.6	8.8	7.7	7.7
Prop In Lane	1.00		0.93	0.91		1.00	1.00		0.15	1.00		0.18
Lane Grp Cap(c), veh/h	175	0	373	295	0	369	499	1166	1195	504	1166	1188
V/C Ratio(X)	0.34	0.00	0.35	0.46	0.00	0.13	0.09	0.30	0.30	0.05	0.30	0.30
Avail Cap(c_a), veh/h	288	0	507	404	0	502	499	1166	1195	504	1166	1188
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.82	0.82	0.82	0.87	0.87	0.87
Uniform Delay (d), s/veh	40.7	0.0	28.8	34.6	0.0	27.3	8.8	6.6	6.6	8.5	6.6	6.7
Incr Delay (d2), s/veh	1.2	0.0	0.6	1.1	0.0	0.2	0.3	0.5	0.5	0.1	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.4	0.0	4.3	5.1	0.0	1.4	0.7	4.4	4.5	0.4	4.5	4.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.8	0.0	29.4	35.8	0.0	27.4	9.1	7.2	7.2	8.7	7.2	7.2
LnGrp LOS	D	A	C	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		191			184			749			738	
Approach Delay, s/veh		33.3			33.6			7.3			7.3	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		64.5		25.5		64.5		25.5				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		10.8		20.5		12.1		16.6				
Green Ext Time (p_c), s		4.8		0.5		4.9		0.7				

Intersection Summary												
HCM 6th Ctrl Delay			12.5									
HCM 6th LOS			B									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	28	41	48	5	24	86	878	96	50	660	39
Future Volume (veh/h)	35	28	41	48	5	24	86	878	96	50	660	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	38	30	45	52	5	26	93	954	104	54	717	42
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	156	89	134	191	15	210	569	2445	266	429	2581	151
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.76	0.76	0.76	0.76	0.76	0.76
Sat Flow, veh/h	1378	675	1013	862	113	1585	706	3232	352	533	3412	200
Grp Volume(v), veh/h	38	0	75	57	0	26	93	524	534	54	373	386
Grp Sat Flow(s),veh/h/ln	1378	0	1688	975	0	1585	706	1777	1807	533	1777	1834
Q Serve(g_s), s	2.4	0.0	3.6	3.3	0.0	1.3	4.2	9.2	9.2	3.5	5.8	5.8
Cycle Q Clear(g_c), s	9.3	0.0	3.6	6.9	0.0	1.3	10.0	9.2	9.2	12.7	5.8	5.8
Prop In Lane	1.00		0.60	0.91		1.00	1.00		0.19	1.00		0.11
Lane Grp Cap(c), veh/h	156	0	223	206	0	210	569	1344	1367	429	1344	1388
V/C Ratio(X)	0.24	0.00	0.34	0.28	0.00	0.12	0.16	0.39	0.39	0.13	0.28	0.28
Avail Cap(c_a), veh/h	410	0	535	456	0	502	569	1344	1367	429	1344	1388
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.71	0.71	0.71	0.64	0.64	0.64
Uniform Delay (d), s/veh	41.3	0.0	35.5	38.2	0.0	34.4	4.9	3.8	3.8	6.0	3.4	3.4
Incr Delay (d2), s/veh	0.8	0.0	0.9	0.7	0.0	0.3	0.4	0.6	0.6	0.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.5	0.0	2.8	2.2	0.0	0.9	1.0	4.1	4.2	0.7	2.6	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.1	0.0	36.3	39.0	0.0	34.7	5.4	4.4	4.4	6.4	3.7	3.7
LnGrp LOS	D	A	D	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		113			83			1151			813	
Approach Delay, s/veh		38.3			37.6			4.5			3.9	
Approach LOS		D			D			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		73.6		16.4		73.6		16.4				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		14.7		11.3		12.0		8.9				
Green Ext Time (p_c), s		5.7		0.4		9.1		0.3				

Intersection Summary												
HCM 6th Ctrl Delay			7.3									
HCM 6th LOS			A									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	8	114	116	12	44	41	618	51	21	633	53
Future Volume (veh/h)	48	8	114	116	12	44	41	618	51	21	633	53
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	52	9	124	126	13	48	45	672	55	23	688	58
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	167	25	345	266	24	366	486	2189	179	496	2183	184
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.66	0.66	0.66	0.66	0.66	0.66
Sat Flow, veh/h	1341	108	1493	821	103	1585	715	3326	272	728	3317	279
Grp Volume(v), veh/h	52	0	133	139	0	48	45	359	368	23	368	378
Grp Sat Flow(s),veh/h/ln	1341	0	1602	925	0	1585	715	1777	1821	728	1777	1820
Q Serve(g_s), s	3.4	0.0	6.3	8.7	0.0	2.2	2.6	7.8	7.8	1.3	8.0	8.1
Cycle Q Clear(g_c), s	18.3	0.0	6.3	15.0	0.0	2.2	10.7	7.8	7.8	9.1	8.0	8.1
Prop In Lane	1.00		0.93	0.91		1.00	1.00		0.15	1.00		0.15
Lane Grp Cap(c), veh/h	167	0	370	290	0	366	486	1169	1199	496	1169	1198
V/C Ratio(X)	0.31	0.00	0.36	0.48	0.00	0.13	0.09	0.31	0.31	0.05	0.31	0.32
Avail Cap(c_a), veh/h	282	0	507	401	0	502	486	1169	1199	496	1169	1198
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.81	0.81	0.81	0.85	0.85	0.85
Uniform Delay (d), s/veh	40.9	0.0	29.0	35.0	0.0	27.5	8.9	6.6	6.6	8.5	6.6	6.6
Incr Delay (d2), s/veh	1.0	0.0	0.6	1.2	0.0	0.2	0.3	0.6	0.5	0.2	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.1	0.0	4.4	5.2	0.0	1.5	0.7	4.5	4.6	0.4	4.7	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.0	0.0	29.6	36.2	0.0	27.6	9.3	7.1	7.1	8.7	7.2	7.2
LnGrp LOS	D	A	C	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		185			187			772			769	
Approach Delay, s/veh		33.1			34.0			7.3			7.3	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		64.7		25.3		64.7		25.3				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		11.1		20.3		12.7		17.0				
Green Ext Time (p_c), s		5.1		0.5		5.1		0.7				

Intersection Summary												
HCM 6th Ctrl Delay			12.4									
HCM 6th LOS			B									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	42	28	41	48	5	24	86	871	96	50	662	41
Future Volume (veh/h)	42	28	41	48	5	24	86	871	96	50	662	41
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	46	30	45	52	5	26	93	947	104	54	720	45
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	161	91	137	194	15	215	563	2433	267	430	2560	160
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.75	0.75	0.75	0.75	0.75	0.75
Sat Flow, veh/h	1378	675	1013	872	113	1585	702	3229	355	537	3397	212
Grp Volume(v), veh/h	46	0	75	57	0	26	93	521	530	54	376	389
Grp Sat Flow(s),veh/h/ln	1378	0	1688	985	0	1585	702	1777	1807	537	1777	1832
Q Serve(g_s), s	2.9	0.0	3.6	3.3	0.0	1.3	4.3	9.2	9.2	3.5	6.0	6.0
Cycle Q Clear(g_c), s	9.8	0.0	3.6	6.9	0.0	1.3	10.3	9.2	9.2	12.7	6.0	6.0
Prop In Lane	1.00		0.60	0.91		1.00	1.00		0.20	1.00		0.12
Lane Grp Cap(c), veh/h	161	0	229	210	0	215	563	1339	1361	430	1339	1381
V/C Ratio(X)	0.29	0.00	0.33	0.27	0.00	0.12	0.17	0.39	0.39	0.13	0.28	0.28
Avail Cap(c_a), veh/h	411	0	535	456	0	502	563	1339	1361	430	1339	1381
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.71	0.71	0.71	0.64	0.64	0.64
Uniform Delay (d), s/veh	41.3	0.0	35.2	38.0	0.0	34.2	5.1	3.9	3.9	6.1	3.5	3.5
Incr Delay (d2), s/veh	1.0	0.0	0.8	0.7	0.0	0.2	0.4	0.6	0.6	0.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.8	0.0	2.7	2.2	0.0	0.9	1.0	4.2	4.2	0.7	2.6	2.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.2	0.0	36.0	38.7	0.0	34.5	5.5	4.5	4.5	6.5	3.8	3.8
LnGrp LOS	D	A	D	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		121			83			1144			819	
Approach Delay, s/veh		38.4			37.3			4.6			4.0	
Approach LOS		D			D			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		73.3		16.7		73.3		16.7				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		14.7		11.8		12.3		8.9				
Green Ext Time (p_c), s		5.8		0.4		9.0		0.3				

Intersection Summary												
HCM 6th Ctrl Delay			7.5									
HCM 6th LOS			A									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	8	114	116	12	44	41	637	51	21	634	62
Future Volume (veh/h)	56	8	114	116	12	44	41	637	51	21	634	62
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	61	9	124	126	13	48	45	692	55	23	689	67
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	176	26	352	273	25	374	476	2177	173	481	2136	208
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.65	0.65	0.65	0.65	0.65	0.65
Sat Flow, veh/h	1341	108	1493	832	104	1585	708	3335	265	714	3272	318
Grp Volume(v), veh/h	61	0	133	139	0	48	45	368	379	23	374	382
Grp Sat Flow(s),veh/h/ln	1341	0	1602	936	0	1585	708	1777	1823	714	1777	1813
Q Serve(g_s), s	4.0	0.0	6.2	8.7	0.0	2.1	2.7	8.2	8.2	1.3	8.3	8.3
Cycle Q Clear(g_c), s	18.8	0.0	6.2	14.9	0.0	2.1	11.1	8.2	8.2	9.5	8.3	8.3
Prop In Lane	1.00		0.93	0.91		1.00	1.00		0.15	1.00		0.18
Lane Grp Cap(c), veh/h	176	0	378	297	0	374	476	1160	1190	481	1160	1184
V/C Ratio(X)	0.35	0.00	0.35	0.47	0.00	0.13	0.09	0.32	0.32	0.05	0.32	0.32
Avail Cap(c_a), veh/h	284	0	507	402	0	502	476	1160	1190	481	1160	1184
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.80	0.80	0.80	0.84	0.84	0.84
Uniform Delay (d), s/veh	40.6	0.0	28.6	34.5	0.0	27.1	9.3	6.8	6.8	8.9	6.9	6.9
Incr Delay (d2), s/veh	1.2	0.0	0.6	1.1	0.0	0.2	0.3	0.6	0.6	0.2	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.4	0.0	4.3	5.2	0.0	1.5	0.7	4.8	4.9	0.4	4.9	5.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.8	0.0	29.2	35.7	0.0	27.2	9.6	7.4	7.4	9.1	7.5	7.5
LnGrp LOS	D	A	C	D	A	C	A	A	A	A	A	A
Approach Vol, veh/h		194			187			792			779	
Approach Delay, s/veh		33.2			33.5			7.5			7.5	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		64.2		25.8		64.2		25.8				
Change Period (Y+Rc), s		5.5		4.5		5.5		4.5				
Max Green Setting (Gmax), s		51.5		28.5		51.5		28.5				
Max Q Clear Time (g_c+I1), s		11.5		20.8		13.1		16.9				
Green Ext Time (p_c), s		5.2		0.5		5.3		0.7				

Intersection Summary												
HCM 6th Ctrl Delay			12.6									
HCM 6th LOS			B									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	192	626	106	200	925	274	222	548	260	137	398	168
Future Volume (veh/h)	192	626	106	200	925	274	222	548	260	137	398	168
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	209	680	115	217	1005	298	241	596	283	149	433	183
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	238	1422	238	245	1278	378	271	999	446	178	814	363
Arrive On Green	0.13	0.32	0.32	0.14	0.33	0.33	0.15	0.28	0.28	0.10	0.23	0.23
Sat Flow, veh/h	1781	4405	737	1781	3908	1158	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	209	524	271	217	875	428	241	596	283	149	433	183
Grp Sat Flow(s),veh/h/ln	1781	1702	1738	1781	1702	1662	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	13.8	14.8	15.0	14.4	28.0	28.0	15.9	17.4	18.7	9.9	12.8	12.1
Cycle Q Clear(g_c), s	13.8	14.8	15.0	14.4	28.0	28.0	15.9	17.4	18.7	9.9	12.8	12.1
Prop In Lane	1.00		0.42	1.00		0.70	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	238	1099	561	245	1113	543	271	999	446	178	814	363
V/C Ratio(X)	0.88	0.48	0.48	0.89	0.79	0.79	0.89	0.60	0.64	0.84	0.53	0.50
Avail Cap(c_a), veh/h	297	1099	561	282	1113	543	356	999	446	327	814	363
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.98	0.98
Uniform Delay (d), s/veh	51.0	32.5	32.6	50.8	36.6	36.6	49.9	37.3	37.7	53.0	40.6	40.3
Incr Delay (d2), s/veh	21.2	1.5	3.0	24.7	5.6	11.0	19.0	2.6	6.8	9.6	2.4	4.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	11.9	10.2	10.9	12.6	17.8	18.5	13.1	12.3	12.6	8.4	9.7	8.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.2	34.0	35.6	75.5	42.2	47.6	68.9	39.9	44.5	62.6	43.0	45.1
LnGrp LOS	E	C	D	E	D	D	E	D	D	E	D	D
Approach Vol, veh/h		1004			1520			1120			765	
Approach Delay, s/veh		42.4			48.5			47.3			47.3	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	44.7	16.0	39.2	20.5	44.2	22.3	33.0
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	20.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	15.8	30.0	11.9	20.7	16.4	17.0	17.9	14.8
Green Ext Time (p_c), s	0.2	0.0	0.2	3.2	0.2	4.1	0.3	2.7

Intersection Summary	
HCM 6th Ctrl Delay	46.6
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	101	1306	131	214	670	117	126	429	340	248	467	198
Future Volume (veh/h)	101	1306	131	214	670	117	126	429	340	248	467	198
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	110	1420	142	233	728	127	137	466	370	270	508	215
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	137	1335	133	260	1543	267	166	874	390	297	1135	506
Arrive On Green	0.08	0.28	0.28	0.15	0.35	0.35	0.09	0.25	0.25	0.17	0.32	0.32
Sat Flow, veh/h	1781	4718	472	1781	4381	757	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	110	1025	537	233	564	291	137	466	370	270	508	215
Grp Sat Flow(s),veh/h/ln	1781	1702	1785	1781	1702	1734	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	7.3	33.9	33.9	15.4	15.4	15.7	9.1	13.7	27.6	17.9	13.6	12.8
Cycle Q Clear(g_c), s	7.3	33.9	33.9	15.4	15.4	15.7	9.1	13.7	27.6	17.9	13.6	12.8
Prop In Lane	1.00		0.26	1.00		0.44	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	137	963	505	260	1199	611	166	874	390	297	1135	506
V/C Ratio(X)	0.80	1.06	1.06	0.90	0.47	0.48	0.82	0.53	0.95	0.91	0.45	0.42
Avail Cap(c_a), veh/h	297	963	505	282	1199	611	356	874	390	327	1135	506
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99
Uniform Delay (d), s/veh	54.5	43.0	43.0	50.3	30.2	30.3	53.4	39.3	44.5	49.1	32.4	32.2
Incr Delay (d2), s/veh	10.4	47.6	58.2	27.3	1.3	2.7	9.7	2.3	34.5	26.3	1.3	2.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	6.5	28.6	31.7	13.5	10.5	11.1	7.9	10.2	20.5	15.1	9.9	8.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.9	90.6	101.2	77.7	31.5	32.9	63.2	41.6	79.0	75.4	33.7	34.7
LnGrp LOS	E	F	F	E	C	C	E	D	E	E	C	C
Approach Vol, veh/h		1672			1088			973			993	
Approach Delay, s/veh		92.3			41.8			58.9			45.3	
Approach LOS		F			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	47.8	24.0	35.0	21.5	39.4	15.2	43.8
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	20.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	9.3	17.7	19.9	29.6	17.4	35.9	11.1	15.6
Green Ext Time (p_c), s	0.2	4.1	0.2	0.0	0.1	0.0	0.3	3.1

Intersection Summary	
HCM 6th Ctrl Delay	63.9
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	198	626	106	200	925	280	222	530	260	138	396	169
Future Volume (veh/h)	198	626	106	200	925	280	222	530	260	138	396	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	215	680	115	217	1005	304	241	576	283	150	430	184
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	244	1422	238	245	1258	380	271	997	445	179	814	363
Arrive On Green	0.14	0.32	0.32	0.14	0.32	0.32	0.15	0.28	0.28	0.10	0.23	0.23
Sat Flow, veh/h	1781	4405	737	1781	3888	1175	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	215	524	271	217	880	429	241	576	283	150	430	184
Grp Sat Flow(s),veh/h/ln	1781	1702	1738	1781	1702	1659	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	14.2	14.8	15.0	14.4	28.3	28.3	15.9	16.7	18.8	9.9	12.7	12.1
Cycle Q Clear(g_c), s	14.2	14.8	15.0	14.4	28.3	28.3	15.9	16.7	18.8	9.9	12.7	12.1
Prop In Lane	1.00		0.42	1.00		0.71	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	244	1099	561	245	1102	537	271	997	445	179	814	363
V/C Ratio(X)	0.88	0.48	0.48	0.89	0.80	0.80	0.89	0.58	0.64	0.84	0.53	0.51
Avail Cap(c_a), veh/h	297	1099	561	282	1102	537	356	997	445	327	814	363
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.98	0.98
Uniform Delay (d), s/veh	50.9	32.5	32.6	50.8	37.0	37.0	49.9	37.1	37.8	53.0	40.6	40.3
Incr Delay (d2), s/veh	22.2	1.5	3.0	24.7	6.1	11.8	19.0	2.4	6.8	9.6	2.4	4.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	12.3	10.2	10.9	12.6	18.1	18.8	13.1	11.9	12.6	8.4	9.6	8.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	73.1	34.0	35.6	75.5	43.1	48.9	68.9	39.5	44.6	62.6	43.0	45.2
LnGrp LOS	E	C	D	E	D	D	E	D	D	E	D	D
Approach Vol, veh/h		1010			1526			1100			764	
Approach Delay, s/veh		42.7			49.3			47.3			47.3	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.4	44.3	16.1	39.2	20.5	44.2	22.3	33.0
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	20.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	16.2	30.3	11.9	20.8	16.4	17.0	17.9	14.7
Green Ext Time (p_c), s	0.2	0.0	0.2	3.1	0.2	4.1	0.3	2.7

Intersection Summary	
HCM 6th Ctrl Delay	46.9
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	107	1306	131	214	670	123	126	434	340	255	455	205
Future Volume (veh/h)	107	1306	131	214	670	123	126	434	340	255	455	205
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	116	1420	142	233	728	134	137	472	370	277	495	223
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	143	1317	132	260	1497	273	166	874	390	304	1148	512
Arrive On Green	0.08	0.28	0.28	0.15	0.34	0.34	0.09	0.25	0.25	0.17	0.32	0.32
Sat Flow, veh/h	1781	4718	472	1781	4341	791	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	116	1025	537	233	569	293	137	472	370	277	495	223
Grp Sat Flow(s),veh/h/ln	1781	1702	1785	1781	1702	1728	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	7.7	33.5	33.5	15.4	15.8	16.0	9.1	13.9	27.6	18.3	13.1	13.3
Cycle Q Clear(g_c), s	7.7	33.5	33.5	15.4	15.8	16.0	9.1	13.9	27.6	18.3	13.1	13.3
Prop In Lane	1.00		0.26	1.00		0.46	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	143	951	499	260	1174	596	166	874	390	304	1148	512
V/C Ratio(X)	0.81	1.08	1.08	0.90	0.49	0.49	0.82	0.54	0.95	0.91	0.43	0.44
Avail Cap(c_a), veh/h	297	951	499	282	1174	596	356	874	390	327	1148	512
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	0.97	0.97
Uniform Delay (d), s/veh	54.3	43.2	43.2	50.3	30.9	31.0	53.4	39.4	44.5	48.9	31.9	32.0
Incr Delay (d2), s/veh	10.3	52.5	62.9	27.3	1.4	2.9	9.7	2.4	34.5	26.9	1.1	2.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	6.8	29.3	32.4	13.5	10.8	11.3	7.9	10.3	20.5	15.4	9.6	9.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.6	95.7	106.2	77.7	32.4	33.9	63.2	41.7	79.0	75.8	33.1	34.6
LnGrp LOS	E	F	F	E	C	C	E	D	E	E	C	C
Approach Vol, veh/h		1678			1095			979			995	
Approach Delay, s/veh		96.9			42.4			58.8			45.3	
Approach LOS		F			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	46.9	24.5	35.0	21.5	39.0	15.2	44.3
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	20.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	9.7	18.0	20.3	29.6	17.4	35.5	11.1	15.3
Green Ext Time (p_c), s	0.2	4.1	0.1	0.0	0.1	0.0	0.3	3.1

Intersection Summary	
HCM 6th Ctrl Delay	65.7
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	200	639	109	205	944	284	228	581	267	145	425	176
Future Volume (veh/h)	200	639	109	205	944	284	228	581	267	145	425	176
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	217	695	118	223	1026	309	248	632	290	158	462	191
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	246	1390	234	251	1241	373	278	994	443	188	814	363
Arrive On Green	0.14	0.32	0.32	0.14	0.32	0.32	0.16	0.28	0.28	0.11	0.23	0.23
Sat Flow, veh/h	1781	4402	739	1781	3892	1171	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	217	536	277	223	897	438	248	632	290	158	462	191
Grp Sat Flow(s),veh/h/ln	1781	1702	1737	1781	1702	1660	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	14.4	15.3	15.6	14.8	29.3	29.3	16.4	18.7	19.4	10.4	13.8	12.7
Cycle Q Clear(g_c), s	14.4	15.3	15.6	14.8	29.3	29.3	16.4	18.7	19.4	10.4	13.8	12.7
Prop In Lane	1.00		0.43	1.00		0.71	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	246	1075	549	251	1085	529	278	994	443	188	814	363
V/C Ratio(X)	0.88	0.50	0.51	0.89	0.83	0.83	0.89	0.64	0.65	0.84	0.57	0.53
Avail Cap(c_a), veh/h	297	1075	549	282	1085	529	356	994	443	327	814	363
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	0.97	0.97
Uniform Delay (d), s/veh	50.8	33.3	33.4	50.6	37.8	37.8	49.7	37.9	38.1	52.7	41.0	40.5
Incr Delay (d2), s/veh	22.5	1.7	3.3	25.7	7.3	13.9	20.0	3.1	7.3	9.5	2.8	5.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	12.4	10.6	11.2	12.9	18.8	19.6	13.5	13.1	12.9	8.7	10.3	9.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	73.3	35.0	36.7	76.3	45.1	51.7	69.6	41.0	45.4	62.2	43.7	45.7
LnGrp LOS	E	C	D	E	D	D	E	D	D	E	D	D
Approach Vol, veh/h		1030			1558			1170			811	
Approach Delay, s/veh		43.5			51.4			48.1			47.8	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.5	43.7	16.6	39.1	20.9	43.4	22.7	33.0
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	20.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	16.4	31.3	12.4	21.4	16.8	17.6	18.4	15.8
Green Ext Time (p_c), s	0.2	0.0	0.3	3.2	0.1	4.1	0.3	2.7

Intersection Summary	
HCM 6th Ctrl Delay	48.2
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	107	1332	137	221	683	123	131	453	349	257	494	206
Future Volume (veh/h)	107	1332	137	221	683	123	131	453	349	257	494	206
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	116	1448	149	240	742	134	142	492	379	279	537	224
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	143	1291	133	267	1497	268	172	874	390	306	1141	509
Arrive On Green	0.08	0.27	0.27	0.15	0.34	0.34	0.10	0.25	0.25	0.17	0.32	0.32
Sat Flow, veh/h	1781	4703	484	1781	4355	779	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	116	1048	549	240	578	298	142	492	379	279	537	224
Grp Sat Flow(s),veh/h/ln	1781	1702	1783	1781	1702	1730	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	7.7	32.9	32.9	15.9	16.1	16.4	9.4	14.5	28.4	18.5	14.5	13.4
Cycle Q Clear(g_c), s	7.7	32.9	32.9	15.9	16.1	16.4	9.4	14.5	28.4	18.5	14.5	13.4
Prop In Lane	1.00		0.27	1.00		0.45	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	143	934	490	267	1170	595	172	874	390	306	1141	509
V/C Ratio(X)	0.81	1.12	1.12	0.90	0.49	0.50	0.83	0.56	0.97	0.91	0.47	0.44
Avail Cap(c_a), veh/h	297	934	490	282	1170	595	356	874	390	327	1141	509
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	0.96	0.96
Uniform Delay (d), s/veh	54.3	43.5	43.5	50.1	31.1	31.2	53.2	39.6	44.9	48.8	32.6	32.2
Incr Delay (d2), s/veh	10.3	68.7	78.5	28.5	1.5	3.0	9.7	2.6	39.2	27.0	1.3	2.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	6.8	32.2	35.2	14.0	10.9	11.5	8.1	10.7	21.5	15.5	10.4	9.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.6	112.3	122.0	78.7	32.6	34.2	62.9	42.2	84.1	75.8	33.9	34.8
LnGrp LOS	E	F	F	E	C	C	E	D	F	E	C	C
Approach Vol, veh/h		1713			1116			1013			1040	
Approach Delay, s/veh		112.1			42.9			60.8			45.4	
Approach LOS		F			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	46.7	24.6	35.0	22.0	38.4	15.6	44.0
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	20.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	9.7	18.4	20.5	30.4	17.9	34.9	11.4	16.5
Green Ext Time (p_c), s	0.2	4.1	0.1	0.0	0.1	0.0	0.3	3.1

Intersection Summary	
HCM 6th Ctrl Delay	71.4
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	113	1332	137	221	683	129	131	458	349	264	482	213
Future Volume (veh/h)	113	1332	137	221	683	129	131	458	349	264	482	213
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	123	1448	149	240	742	140	142	498	379	287	524	232
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	151	1272	131	267	1449	271	172	874	390	313	1156	516
Arrive On Green	0.08	0.27	0.27	0.15	0.34	0.34	0.10	0.25	0.25	0.18	0.33	0.33
Sat Flow, veh/h	1781	4703	484	1781	4321	808	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	123	1048	549	240	583	299	142	498	379	287	524	232
Grp Sat Flow(s),veh/h/ln	1781	1702	1783	1781	1702	1725	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	8.1	32.4	32.4	15.9	16.5	16.7	9.4	14.7	28.4	19.0	14.0	13.9
Cycle Q Clear(g_c), s	8.1	32.4	32.4	15.9	16.5	16.7	9.4	14.7	28.4	19.0	14.0	13.9
Prop In Lane	1.00		0.27	1.00		0.47	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	151	920	482	267	1142	579	172	874	390	313	1156	516
V/C Ratio(X)	0.82	1.14	1.14	0.90	0.51	0.52	0.83	0.57	0.97	0.92	0.45	0.45
Avail Cap(c_a), veh/h	297	920	482	282	1142	579	356	874	390	327	1156	516
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	0.96	0.96
Uniform Delay (d), s/veh	54.0	43.8	43.8	50.1	32.0	32.1	53.2	39.7	44.9	48.6	32.0	32.0
Incr Delay (d2), s/veh	10.2	75.6	85.0	28.5	1.6	3.3	9.7	2.7	39.2	28.1	1.2	2.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	7.2	33.2	36.2	14.0	11.2	11.8	8.1	10.9	21.5	16.0	10.0	9.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.2	119.3	128.8	78.7	33.6	35.3	62.9	42.4	84.1	76.7	33.3	34.7
LnGrp LOS	E	F	F	E	C	D	E	D	F	E	C	C
Approach Vol, veh/h		1720			1122			1019			1043	
Approach Delay, s/veh		118.4			43.7			60.8			45.5	
Approach LOS		F			D			E			D	

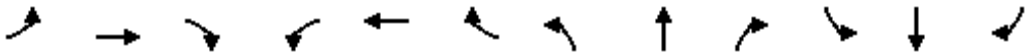
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.2	45.7	25.1	35.0	22.0	37.9	15.6	44.5
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	10.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	10.1	18.7	21.0	30.4	17.9	34.4	11.4	16.0
Green Ext Time (p_c), s	0.2	4.0	0.1	0.0	0.1	0.0	0.3	3.2

Intersection Summary	
HCM 6th Ctrl Delay	73.8
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	206	639	109	205	944	290	228	563	267	146	423	177
Future Volume (veh/h)	206	639	109	205	944	290	228	563	267	146	423	177
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	224	695	118	223	1026	315	248	612	290	159	460	192
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	252	1390	234	251	1220	374	278	992	443	189	814	363
Arrive On Green	0.14	0.32	0.32	0.14	0.31	0.31	0.16	0.28	0.28	0.11	0.23	0.23
Sat Flow, veh/h	1781	4402	739	1781	3872	1188	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	224	536	277	223	902	439	248	612	290	159	460	192
Grp Sat Flow(s),veh/h/ln	1781	1702	1737	1781	1702	1656	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	14.8	15.3	15.6	14.8	29.6	29.7	16.4	18.0	19.4	10.5	13.8	12.7
Cycle Q Clear(g_c), s	14.8	15.3	15.6	14.8	29.6	29.7	16.4	18.0	19.4	10.5	13.8	12.7
Prop In Lane	1.00		0.43	1.00		0.72	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	252	1075	549	251	1072	522	278	992	443	189	814	363
V/C Ratio(X)	0.89	0.50	0.51	0.89	0.84	0.84	0.89	0.62	0.66	0.84	0.56	0.53
Avail Cap(c_a), veh/h	297	1075	549	282	1072	522	356	992	443	327	814	363
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	0.97	0.97
Uniform Delay (d), s/veh	50.6	33.3	33.4	50.6	38.3	38.3	49.7	37.7	38.2	52.7	41.0	40.6
Incr Delay (d2), s/veh	23.7	1.7	3.3	25.7	8.0	15.1	20.0	2.9	7.4	9.5	2.7	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	12.8	10.6	11.2	12.9	19.1	19.9	13.5	12.7	13.0	8.8	10.2	9.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	74.2	35.0	36.7	76.3	46.3	53.5	69.6	40.5	45.5	62.1	43.7	45.8
LnGrp LOS	E	C	D	E	D	D	E	D	D	E	D	D
Approach Vol, veh/h		1037			1564			1150			811	
Approach Delay, s/veh		43.9			52.6			48.1			47.8	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.0	43.3	16.7	39.0	20.9	43.4	22.7	33.0
Change Period (Y+Rc), s	4.0	5.5	4.0	5.5	4.0	5.5	4.0	5.5
Max Green Setting (Gmax), s	20.0	29.5	22.0	29.5	19.0	30.5	24.0	27.5
Max Q Clear Time (g_c+I1), s	16.8	31.7	12.5	21.4	16.8	17.6	18.4	15.8
Green Ext Time (p_c), s	0.2	0.0	0.3	3.1	0.1	4.1	0.3	2.7

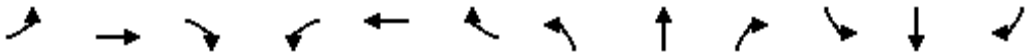
Intersection Summary	
HCM 6th Ctrl Delay	48.6
HCM 6th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1079	27	400	1670	23	0	0	629	115	31	37
Future Volume (vph)	0	1079	27	400	1670	23	0	0	629	115	31	37
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.92	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5075				2787	1770	1712	
Flt Permitted		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		5085	1583	3433	5075				2787	1770	1712	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	1173	29	435	1815	25	0	0	684	125	34	40
RTOR Reduction (vph)	0	0	15	0	1	0	0	0	0	0	35	0
Lane Group Flow (vph)	0	1173	14	435	1839	0	0	0	684	125	39	0
Turn Type		NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases		2	2							4		
Actuated Green, G (s)		59.0	59.0	31.7	96.2				31.7	13.8	13.8	
Effective Green, g (s)		59.0	59.0	31.7	96.2				31.7	13.8	13.8	
Actuated g/C Ratio		0.49	0.49	0.26	0.80				0.26	0.12	0.12	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2500	778	906	4068				736	203	196	
v/s Ratio Prot		0.23		0.13	c0.36				c0.25		0.02	
v/s Ratio Perm			0.01							c0.07		
v/c Ratio		0.47	0.02	0.48	0.45				0.93	0.62	0.20	
Uniform Delay, d1		20.2	15.6	37.2	3.7				43.1	50.6	48.1	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		0.6	0.0	0.4	0.1				17.9	5.5	0.5	
Delay (s)		20.8	15.7	37.6	3.8				61.0	56.0	48.6	
Level of Service		C	B	D	A				E	E	D	
Approach Delay (s)		20.7			10.3			61.0			53.3	
Approach LOS		C			B			E			D	

Intersection Summary			
HCM 2000 Control Delay	23.0	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.63		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	62.1%	ICU Level of Service	B
Analysis Period (min)	15		

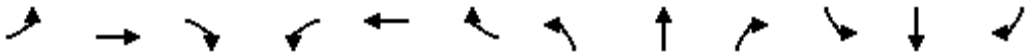
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	1212	65	365	1321	40	0	0	723	83	29	42
Future Volume (vph)	4	1212	65	365	1321	40	0	0	723	83	29	42
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.91	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5063				2787	1770	1698	
Flt Permitted		0.93	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		4753	1583	3433	5063				2787	1770	1698	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	1317	71	397	1436	43	0	0	786	90	32	46
RTOR Reduction (vph)	0	0	30	0	2	0	0	0	0	0	42	0
Lane Group Flow (vph)	0	1321	41	397	1477	0	0	0	786	90	36	0
Turn Type	Perm	NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases	2	2	2							4		
Actuated Green, G (s)		59.0	59.0	34.1	98.6				34.1	11.4	11.4	
Effective Green, g (s)		59.0	59.0	34.1	98.6				34.1	11.4	11.4	
Actuated g/C Ratio		0.49	0.49	0.28	0.82				0.28	0.10	0.10	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2336	778	975	4160				791	168	161	
v/s Ratio Prot				0.12	0.29				c0.28		0.02	
v/s Ratio Perm		c0.28	0.03							c0.05		
v/c Ratio		0.57	0.05	0.41	0.36				0.99	0.54	0.23	
Uniform Delay, d1		21.5	15.9	34.8	2.7				42.8	51.8	50.2	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		1.0	0.1	0.3	0.1				30.3	3.3	0.7	
Delay (s)		22.5	16.0	35.0	2.7				73.1	55.0	50.9	
Level of Service		C	B	D	A				E	E	D	
Approach Delay (s)		22.1			9.6			73.1			53.1	
Approach LOS		C			A			E			D	

Intersection Summary			
HCM 2000 Control Delay	27.3	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.70		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	67.8%	ICU Level of Service	C
Analysis Period (min)	15		

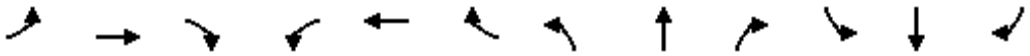
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1081	27	346	1630	23	0	0	636	115	31	37
Future Volume (vph)	0	1081	27	346	1630	23	0	0	636	115	31	37
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.92	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5075				2787	1770	1712	
Flt Permitted		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		5085	1583	3433	5075				2787	1770	1712	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	1175	29	376	1772	25	0	0	691	125	34	40
RTOR Reduction (vph)	0	0	15	0	1	0	0	0	0	0	35	0
Lane Group Flow (vph)	0	1175	14	376	1796	0	0	0	691	125	39	0
Turn Type		NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases		2	2							4		
Actuated Green, G (s)		59.0	59.0	31.7	96.2				31.7	13.8	13.8	
Effective Green, g (s)		59.0	59.0	31.7	96.2				31.7	13.8	13.8	
Actuated g/C Ratio		0.49	0.49	0.26	0.80				0.26	0.12	0.12	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2500	778	906	4068				736	203	196	
v/s Ratio Prot		c0.23		0.11	0.35				c0.25		0.02	
v/s Ratio Perm			0.01							c0.07		
v/c Ratio		0.47	0.02	0.42	0.44				0.94	0.62	0.20	
Uniform Delay, d1		20.2	15.6	36.5	3.7				43.2	50.6	48.1	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		0.6	0.0	0.3	0.1				19.5	5.5	0.5	
Delay (s)		20.8	15.7	36.8	3.7				62.7	56.0	48.6	
Level of Service		C	B	D	A				E	E	D	
Approach Delay (s)		20.7			9.5			62.7			53.3	
Approach LOS		C			A			E			D	

Intersection Summary			
HCM 2000 Control Delay	23.3	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.63		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	62.4%	ICU Level of Service	B
Analysis Period (min)	15		

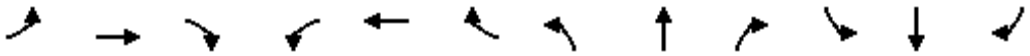
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	1403	65	437	1356	40	0	0	702	83	29	42
Future Volume (vph)	4	1403	65	437	1356	40	0	0	702	83	29	42
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.91	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5064				2787	1770	1698	
Flt Permitted		0.94	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		4755	1583	3433	5064				2787	1770	1698	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	1525	71	475	1474	43	0	0	763	90	32	46
RTOR Reduction (vph)	0	0	30	0	2	0	0	0	0	0	42	0
Lane Group Flow (vph)	0	1529	41	475	1515	0	0	0	763	90	36	0
Turn Type	Perm	NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases	2	2	2							4		
Actuated Green, G (s)		59.0	59.0	34.1	98.6				34.1	11.4	11.4	
Effective Green, g (s)		59.0	59.0	34.1	98.6				34.1	11.4	11.4	
Actuated g/C Ratio		0.49	0.49	0.28	0.82				0.28	0.10	0.10	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2337	778	975	4160				791	168	161	
v/s Ratio Prot				0.14	0.30				c0.27		0.02	
v/s Ratio Perm		c0.32	0.03							c0.05		
v/c Ratio		0.65	0.05	0.49	0.36				0.96	0.54	0.23	
Uniform Delay, d1		22.9	15.9	35.7	2.7				42.4	51.8	50.2	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		1.4	0.1	0.4	0.1				23.5	3.3	0.7	
Delay (s)		24.3	16.0	36.1	2.8				65.8	55.0	50.9	
Level of Service		C	B	D	A				E	E	D	
Approach Delay (s)		23.9			10.7			65.8			53.1	
Approach LOS		C			B			E			D	

Intersection Summary			
HCM 2000 Control Delay	26.3	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.74		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	72.2%	ICU Level of Service	C
Analysis Period (min)	15		

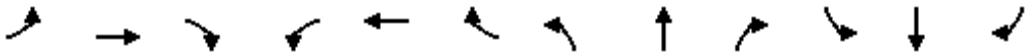
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1132	28	434	1738	23	0	0	671	117	32	38
Future Volume (vph)	0	1132	28	434	1738	23	0	0	671	117	32	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.92	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5075				2787	1770	1712	
Flt Permitted		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		5085	1583	3433	5075				2787	1770	1712	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	1230	30	472	1889	25	0	0	729	127	35	41
RTOR Reduction (vph)	0	0	15	0	1	0	0	0	0	0	33	0
Lane Group Flow (vph)	0	1230	15	472	1913	0	0	0	729	127	43	0
Turn Type		NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases		2	2							4		
Actuated Green, G (s)		59.0	59.0	31.6	96.1				31.6	13.9	13.9	
Effective Green, g (s)		59.0	59.0	31.6	96.1				31.6	13.9	13.9	
Actuated g/C Ratio		0.49	0.49	0.26	0.80				0.26	0.12	0.12	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2500	778	904	4064				733	205	198	
v/s Ratio Prot		c0.24		0.14	0.38				c0.26		0.03	
v/s Ratio Perm			0.01							c0.07		
v/c Ratio		0.49	0.02	0.52	0.47				0.99	0.62	0.22	
Uniform Delay, d1		20.5	15.7	37.8	3.8				44.1	50.5	48.1	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		0.7	0.0	0.5	0.1				31.7	5.5	0.6	
Delay (s)		21.1	15.7	38.3	3.9				75.8	56.0	48.7	
Level of Service		C	B	D	A				E	E	D	
Approach Delay (s)		21.0			10.7			75.8			53.3	
Approach LOS		C			B			E			D	

Intersection Summary			
HCM 2000 Control Delay	25.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.66		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	64.7%	ICU Level of Service	C
Analysis Period (min)	15		

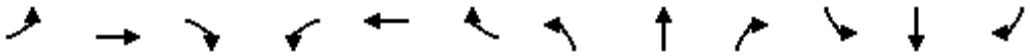
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	1484	66	399	1377	41	0	0	764	85	30	43
Future Volume (vph)	4	1484	66	399	1377	41	0	0	764	85	30	43
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.91	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5063				2787	1770	1699	
Flt Permitted		0.94	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		4756	1583	3433	5063				2787	1770	1699	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	1613	72	434	1497	45	0	0	830	92	33	47
RTOR Reduction (vph)	0	0	30	0	2	0	0	0	0	0	42	0
Lane Group Flow (vph)	0	1617	42	434	1540	0	0	0	830	92	38	0
Turn Type	Perm	NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases	2	2	2							4		
Actuated Green, G (s)		59.0	59.0	33.9	98.4				33.9	11.6	11.6	
Effective Green, g (s)		59.0	59.0	33.9	98.4				33.9	11.6	11.6	
Actuated g/C Ratio		0.49	0.49	0.28	0.82				0.28	0.10	0.10	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2338	778	969	4151				787	171	164	
v/s Ratio Prot				0.13	0.30				c0.30		0.02	
v/s Ratio Perm		c0.34	0.03							c0.05		
v/c Ratio		0.69	0.05	0.45	0.37				1.05	0.54	0.23	
Uniform Delay, d1		23.5	15.9	35.4	2.8				43.0	51.6	50.1	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		1.7	0.1	0.3	0.1				47.5	3.2	0.7	
Delay (s)		25.2	16.1	35.7	2.9				90.5	54.9	50.8	
Level of Service		C	B	D	A				F	D	D	
Approach Delay (s)		24.8			10.1			90.5			53.0	
Approach LOS		C			B			F			D	

Intersection Summary			
HCM 2000 Control Delay	31.3	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.79		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	74.3%	ICU Level of Service	D
Analysis Period (min)	15		

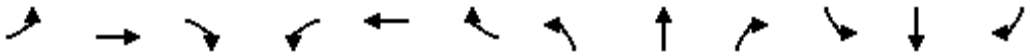
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1134	28	380	1698	23	0	0	678	117	32	38
Future Volume (vph)	0	1134	28	380	1698	23	0	0	678	117	32	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.92	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5075				2787	1770	1712	
Flt Permitted		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		5085	1583	3433	5075				2787	1770	1712	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	1233	30	413	1846	25	0	0	737	127	35	41
RTOR Reduction (vph)	0	0	15	0	1	0	0	0	0	0	35	0
Lane Group Flow (vph)	0	1233	15	413	1870	0	0	0	737	127	41	0
Turn Type		NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases		2	2							4		
Actuated Green, G (s)		59.0	59.0	31.6	96.1				31.6	13.9	13.9	
Effective Green, g (s)		59.0	59.0	31.6	96.1				31.6	13.9	13.9	
Actuated g/C Ratio		0.49	0.49	0.26	0.80				0.26	0.12	0.12	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2500	778	904	4064				733	205	198	
v/s Ratio Prot		c0.24		0.12	0.37				c0.26		0.02	
v/s Ratio Perm			0.01							c0.07		
v/c Ratio		0.49	0.02	0.46	0.46				1.01	0.62	0.21	
Uniform Delay, d1		20.5	15.7	37.0	3.8				44.2	50.5	48.0	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		0.7	0.0	0.4	0.1				34.6	5.5	0.5	
Delay (s)		21.2	15.7	37.4	3.9				78.8	56.0	48.6	
Level of Service		C	B	D	A				E	E	D	
Approach Delay (s)		21.0			9.9			78.8			53.2	
Approach LOS		C			A			E			D	

Intersection Summary			
HCM 2000 Control Delay	26.3	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.66		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	65.0%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	1462	66	471	1412	41	0	0	743	85	30	43
Future Volume (vph)	4	1462	66	471	1412	41	0	0	743	85	30	43
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Lane Util. Factor		0.91	1.00	0.97	0.91				0.88	1.00	1.00	
Frt		1.00	0.85	1.00	1.00				0.85	1.00	0.91	
Flt Protected		1.00	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (prot)		5085	1583	3433	5064				2787	1770	1699	
Flt Permitted		0.93	1.00	0.95	1.00				1.00	0.95	1.00	
Satd. Flow (perm)		4754	1583	3433	5064				2787	1770	1699	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	1589	72	512	1535	45	0	0	808	92	33	47
RTOR Reduction (vph)	0	0	30	0	2	0	0	0	0	0	42	0
Lane Group Flow (vph)	0	1593	42	512	1578	0	0	0	808	92	38	0
Turn Type	Perm	NA	Perm	Prot	NA				Over	Perm	NA	
Protected Phases		2		1	6				1		4	
Permitted Phases	2	2	2							4		
Actuated Green, G (s)		59.0	59.0	33.9	98.4				33.9	11.6	11.6	
Effective Green, g (s)		59.0	59.0	33.9	98.4				33.9	11.6	11.6	
Actuated g/C Ratio		0.49	0.49	0.28	0.82				0.28	0.10	0.10	
Clearance Time (s)		6.0	6.0	5.5	6.0				5.5	4.0	4.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0				3.0	3.0	3.0	
Lane Grp Cap (vph)		2337	778	969	4152				787	171	164	
v/s Ratio Prot				0.15	0.31				c0.29		0.02	
v/s Ratio Perm		c0.34	0.03							c0.05		
v/c Ratio		0.68	0.05	0.53	0.38				1.03	0.54	0.23	
Uniform Delay, d1		23.3	15.9	36.3	2.8				43.0	51.6	50.1	
Progression Factor		1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Incremental Delay, d2		1.6	0.1	0.5	0.1				39.1	3.2	0.7	
Delay (s)		25.0	16.1	36.8	2.9				82.1	54.9	50.8	
Level of Service		C	B	D	A				F	D	D	
Approach Delay (s)		24.6			11.2			82.1			53.0	
Approach LOS		C			B			F			D	

Intersection Summary			
HCM 2000 Control Delay	29.5	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.78		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	15.5
Intersection Capacity Utilization	74.6%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1063	585	223	1724	0	0	0	0	94	0	367
Future Volume (veh/h)	0	1063	585	223	1724	0	0	0	0	94	0	367
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1155	636	242	1874	0				102	0	399
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2184	974	167	2668	0				230	0	360
Arrive On Green	0.00	0.61	0.61	0.09	0.75	0.00				0.13	0.00	0.13
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1155	636	242	1874	0				102	0	399
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	20.4	28.4	10.3	30.6	0.0				5.8	0.0	14.2
Cycle Q Clear(g_c), s	0.0	20.4	28.4	10.3	30.6	0.0				5.8	0.0	14.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2184	974	167	2668	0				230	0	360
V/C Ratio(X)	0.00	0.53	0.65	1.45	0.70	0.00				0.44	0.00	1.11
Avail Cap(c_a), veh/h	0	2184	974	167	2668	0				230	0	360
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.09	0.09	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.1	13.6	49.8	7.2	0.0				44.3	0.0	47.9
Incr Delay (d2), s/veh	0.0	0.9	3.4	206.0	0.1	0.0				1.0	0.0	79.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	12.5	15.6	18.5	11.0	0.0				4.7	0.0	14.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.0	17.0	255.8	7.4	0.0				45.2	0.0	127.7
LnGrp LOS	A	B	B	F	A	A				D	A	F
Approach Vol, veh/h		1791			2116						501	
Approach Delay, s/veh		14.5			35.8						110.9	
Approach LOS		B			D						F	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	15.0	74.0		21.0		89.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	* 10	67.6		14.2		82.6
Max Q Clear Time (g_c+I1), s	12.3	30.4		16.2		32.6
Green Ext Time (p_c), s	0.0	27.5		0.0		41.2

Intersection Summary	
HCM 6th Ctrl Delay	35.7
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1314	610	142	1430	0	0	0	0	154	0	291
Future Volume (veh/h)	0	1314	610	142	1430	0	0	0	0	154	0	291
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1428	663	154	1554	0				167	0	316
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2281	1017	151	2733	0				198	0	309
Arrive On Green	0.00	0.64	0.64	0.08	0.77	0.00				0.11	0.00	0.11
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1428	663	154	1554	0				167	0	316
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	26.5	28.3	9.3	19.7	0.0				10.1	0.0	12.2
Cycle Q Clear(g_c), s	0.0	26.5	28.3	9.3	19.7	0.0				10.1	0.0	12.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2281	1017	151	2733	0				198	0	309
V/C Ratio(X)	0.00	0.63	0.65	1.02	0.57	0.00				0.85	0.00	1.02
Avail Cap(c_a), veh/h	0	2281	1017	151	2733	0				198	0	309
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.51	0.51	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	11.8	12.1	50.3	5.2	0.0				48.0	0.0	48.9
Incr Delay (d2), s/veh	0.0	1.3	3.2	58.3	0.4	0.0				26.6	0.0	56.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	15.2	15.3	9.6	8.8	0.0				9.9	0.0	11.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.1	15.4	108.6	5.7	0.0				74.6	0.0	105.6
LnGrp LOS	A	B	B	F	A	A				E	A	F
Approach Vol, veh/h		2091			1708						483	
Approach Delay, s/veh		13.8			14.9						94.9	
Approach LOS		B			B						F	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	14.0	77.0		19.0		91.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	* 9.3	70.6		12.2		84.6
Max Q Clear Time (g_c+I1), s	4.3	30.3		14.2		21.7
Green Ext Time (p_c), s	0.0	33.6		0.0		39.7

Intersection Summary	
HCM 6th Ctrl Delay	23.4
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1070	586	223	1685	0	0	0	0	94	0	311
Future Volume (veh/h)	0	1070	586	223	1685	0	0	0	0	94	0	311
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1163	637	242	1832	0				102	0	338
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2184	974	167	2668	0				230	0	360
Arrive On Green	0.00	0.61	0.61	0.09	0.75	0.00				0.13	0.00	0.13
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1163	637	242	1832	0				102	0	338
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	20.6	28.5	10.3	29.2	0.0				5.8	0.0	13.2
Cycle Q Clear(g_c), s	0.0	20.6	28.5	10.3	29.2	0.0				5.8	0.0	13.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2184	974	167	2668	0				230	0	360
V/C Ratio(X)	0.00	0.53	0.65	1.45	0.69	0.00				0.44	0.00	0.94
Avail Cap(c_a), veh/h	0	2184	974	167	2668	0				230	0	360
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.12	0.12	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.1	13.7	49.8	7.0	0.0				44.3	0.0	47.5
Incr Delay (d2), s/veh	0.0	0.9	3.4	207.0	0.2	0.0				1.0	0.0	31.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	12.6	15.7	18.9	10.7	0.0				4.7	0.0	10.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.1	17.1	256.8	7.2	0.0				45.2	0.0	79.3
LnGrp LOS	A	B	B	F	A	A				D	A	E
Approach Vol, veh/h		1800			2074						440	
Approach Delay, s/veh		14.5			36.3						71.4	
Approach LOS		B			D						E	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	15.0	74.0		21.0		89.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	* 10	67.6		14.2		82.6
Max Q Clear Time (g_c+I1), s	12.3	30.5		15.2		31.2
Green Ext Time (p_c), s	0.0	27.6		0.0		41.3

Intersection Summary	
HCM 6th Ctrl Delay	30.8
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1303	578	142	1494	0	0	0	0	154	0	334
Future Volume (veh/h)	0	1303	578	142	1494	0	0	0	0	154	0	334
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1416	628	154	1624	0				167	0	363
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2281	1017	151	2733	0				198	0	309
Arrive On Green	0.00	0.64	0.64	0.08	0.77	0.00				0.11	0.00	0.11
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1416	628	154	1624	0				167	0	363
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	26.1	25.9	9.3	21.4	0.0				10.1	0.0	12.2
Cycle Q Clear(g_c), s	0.0	26.1	25.9	9.3	21.4	0.0				10.1	0.0	12.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2281	1017	151	2733	0				198	0	309
V/C Ratio(X)	0.00	0.62	0.62	1.02	0.59	0.00				0.85	0.00	1.17
Avail Cap(c_a), veh/h	0	2281	1017	151	2733	0				198	0	309
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.44	0.44	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	11.7	11.7	50.3	5.4	0.0				48.0	0.0	48.9
Incr Delay (d2), s/veh	0.0	1.3	2.8	54.5	0.4	0.0				26.6	0.0	106.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	15.0	14.1	9.2	9.2	0.0				9.9	0.0	14.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.0	14.5	104.9	5.8	0.0				74.6	0.0	155.6
LnGrp LOS	A	B	B	F	A	A				E	A	F
Approach Vol, veh/h		2044			1778						530	
Approach Delay, s/veh		13.5			14.4						130.1	
Approach LOS		B			B						F	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	14.0	77.0		19.0		91.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	* 9.3	70.6		12.2		84.6
Max Q Clear Time (g_c+I1), s	4.3	28.1		14.2		23.4
Green Ext Time (p_c), s	0.0	34.6		0.0		41.4

Intersection Summary	
HCM 6th Ctrl Delay	28.1
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1132	609	227	1807	0	0	0	0	96	0	384
Future Volume (veh/h)	0	1132	609	227	1807	0	0	0	0	96	0	384
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1230	662	247	1964	0				104	0	417
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2184	974	167	2668	0				230	0	360
Arrive On Green	0.00	0.61	0.61	0.09	0.75	0.00				0.13	0.00	0.13
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1230	662	247	1964	0				104	0	417
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	22.4	30.4	10.3	33.9	0.0				5.9	0.0	14.2
Cycle Q Clear(g_c), s	0.0	22.4	30.4	10.3	33.9	0.0				5.9	0.0	14.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2184	974	167	2668	0				230	0	360
V/C Ratio(X)	0.00	0.56	0.68	1.48	0.74	0.00				0.45	0.00	1.16
Avail Cap(c_a), veh/h	0	2184	974	167	2668	0				230	0	360
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.09	0.09	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.5	14.0	49.8	7.6	0.0				44.3	0.0	47.9
Incr Delay (d2), s/veh	0.0	1.1	3.8	219.3	0.2	0.0				1.0	0.0	97.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	13.5	16.6	19.4	12.1	0.0				4.8	0.0	15.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.6	17.9	269.2	7.8	0.0				45.3	0.0	145.6
LnGrp LOS	A	B	B	F	A	A				D	A	F
Approach Vol, veh/h		1892			2211						521	
Approach Delay, s/veh		15.1			37.0						125.6	
Approach LOS		B			D						F	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	15.0	74.0		21.0		89.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	* 10	67.6		14.2		82.6
Max Q Clear Time (g_c+I1), s	12.3	32.4		16.2		35.9
Green Ext Time (p_c), s	0.0	27.7		0.0		40.3

Intersection Summary	
HCM 6th Ctrl Delay	38.0
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1384	632	145	1502	0	0	0	0	157	0	308
Future Volume (veh/h)	0	1384	632	145	1502	0	0	0	0	157	0	308
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1504	687	158	1633	0				171	0	335
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2281	1017	151	2733	0				198	0	309
Arrive On Green	0.00	0.64	0.64	0.08	0.77	0.00				0.11	0.00	0.11
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1504	687	158	1633	0				171	0	335
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	28.9	30.1	9.3	21.6	0.0				10.4	0.0	12.2
Cycle Q Clear(g_c), s	0.0	28.9	30.1	9.3	21.6	0.0				10.4	0.0	12.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2281	1017	151	2733	0				198	0	309
V/C Ratio(X)	0.00	0.66	0.68	1.05	0.60	0.00				0.87	0.00	1.08
Avail Cap(c_a), veh/h	0	2281	1017	151	2733	0				198	0	309
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.46	0.46	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.2	12.5	50.3	5.4	0.0				48.1	0.0	48.9
Incr Delay (d2), s/veh	0.0	1.5	3.6	63.2	0.4	0.0				30.3	0.0	75.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	16.4	16.1	9.9	9.3	0.0				10.3	0.0	12.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.7	16.0	113.5	5.9	0.0				78.4	0.0	123.9
LnGrp LOS	A	B	B	F	A	A				E	A	F
Approach Vol, veh/h		2191			1791						506	
Approach Delay, s/veh		14.5			15.4						108.5	
Approach LOS		B			B						F	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	14.0	77.0		19.0		91.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	9.3	70.6		12.2		84.6
Max Q Clear Time (g_c+I1), s	4.3	32.1		14.2		23.6
Green Ext Time (p_c), s	0.0	33.3		0.0		41.5

Intersection Summary	
HCM 6th Ctrl Delay	25.4
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1139	610	227	1768	0	0	0	0	96	0	328
Future Volume (veh/h)	0	1139	610	227	1768	0	0	0	0	96	0	328
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1238	663	247	1922	0				104	0	357
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2184	974	167	2668	0				230	0	360
Arrive On Green	0.00	0.61	0.61	0.09	0.75	0.00				0.13	0.00	0.13
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1238	663	247	1922	0				104	0	357
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	22.7	30.5	10.3	32.3	0.0				5.9	0.0	14.1
Cycle Q Clear(g_c), s	0.0	22.7	30.5	10.3	32.3	0.0				5.9	0.0	14.1
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2184	974	167	2668	0				230	0	360
V/C Ratio(X)	0.00	0.57	0.68	1.48	0.72	0.00				0.45	0.00	0.99
Avail Cap(c_a), veh/h	0	2184	974	167	2668	0				230	0	360
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.09	0.09	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.5	14.0	49.8	7.4	0.0				44.3	0.0	47.8
Incr Delay (d2), s/veh	0.0	1.1	3.8	219.3	0.2	0.0				1.0	0.0	45.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	13.6	16.6	19.4	11.5	0.0				4.8	0.0	11.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.6	17.9	269.2	7.6	0.0				45.3	0.0	92.8
LnGrp LOS	A	B	B	F	A	A				D	A	F
Approach Vol, veh/h		1901			2169						461	
Approach Delay, s/veh		15.1			37.4						82.1	
Approach LOS		B			D						F	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	15.0	74.0		21.0		89.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	* 10	67.6		14.2		82.6
Max Q Clear Time (g_c+I1), s	12.3	32.5		16.1		34.3
Green Ext Time (p_c), s	0.0	27.7		0.0		40.8

Intersection Summary	
HCM 6th Ctrl Delay	32.6
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1373	600	145	1566	0	0	0	0	157	0	351
Future Volume (veh/h)	0	1373	600	145	1566	0	0	0	0	157	0	351
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	0	1870
Adj Flow Rate, veh/h	0	1492	652	158	1702	0				171	0	382
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	0	2
Cap, veh/h	0	2281	1017	151	2733	0				198	0	309
Arrive On Green	0.00	0.64	0.64	0.08	0.77	0.00				0.11	0.00	0.11
Sat Flow, veh/h	0	3647	1585	1781	3647	0				1781	0	2790
Grp Volume(v), veh/h	0	1492	652	158	1702	0				171	0	382
Grp Sat Flow(s),veh/h/ln	0	1777	1585	1781	1777	0				1781	0	1395
Q Serve(g_s), s	0.0	28.5	27.5	9.3	23.3	0.0				10.4	0.0	12.2
Cycle Q Clear(g_c), s	0.0	28.5	27.5	9.3	23.3	0.0				10.4	0.0	12.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2281	1017	151	2733	0				198	0	309
V/C Ratio(X)	0.00	0.65	0.64	1.05	0.62	0.00				0.87	0.00	1.23
Avail Cap(c_a), veh/h	0	2281	1017	151	2733	0				198	0	309
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.38	0.38	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.2	12.0	50.3	5.6	0.0				48.1	0.0	48.9
Incr Delay (d2), s/veh	0.0	1.5	3.1	58.7	0.4	0.0				30.3	0.0	130.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	16.2	14.9	9.4	9.7	0.0				10.3	0.0	16.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.6	15.1	109.0	6.0	0.0				78.4	0.0	179.3
LnGrp LOS	A	B	B	F	A	A				E	A	F
Approach Vol, veh/h		2144			1860						553	
Approach Delay, s/veh		14.1			14.8						148.1	
Approach LOS		B			B						F	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	14.0	77.0		19.0		91.0
Change Period (Y+Rc), s	* 4.7	6.4		6.8		6.4
Max Green Setting (Gmax), s	* 9.3	70.6		12.2		84.6
Max Q Clear Time (g_c+I1), s	4.3	30.5		14.2		25.3
Green Ext Time (p_c), s	0.0	34.1		0.0		42.8

Intersection Summary	
HCM 6th Ctrl Delay	30.6
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	424	694	47	94	972	186	84	242	77	142	8	860
Future Volume (veh/h)	424	694	47	94	972	186	84	242	77	142	8	860
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	424	694	47	94	972	186	84	242	77	142	8	860
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	503	1613	109	119	1418	633	233	349	109	459	248	441
Arrive On Green	0.15	0.48	0.48	0.07	0.40	0.40	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	3377	229	1781	3554	1585	1781	2669	829	3456	1870	1585
Grp Volume(v), veh/h	424	365	376	94	972	186	84	159	160	142	8	860
Grp Sat Flow(s),veh/h/ln	1728	1777	1829	1781	1777	1585	1781	1777	1721	1728	1870	1585
Q Serve(g_s), s	13.1	14.9	14.9	5.7	24.9	8.8	4.7	9.4	9.8	4.1	0.4	14.6
Cycle Q Clear(g_c), s	13.1	14.9	14.9	5.7	24.9	8.8	4.7	9.4	9.8	4.1	0.4	14.6
Prop In Lane	1.00		0.12	1.00		1.00	1.00		0.48	1.00		1.00
Lane Grp Cap(c), veh/h	503	848	874	119	1418	633	233	233	225	459	248	441
V/C Ratio(X)	0.84	0.43	0.43	0.79	0.69	0.29	0.36	0.68	0.71	0.31	0.03	1.95
Avail Cap(c_a), veh/h	669	848	874	232	1418	633	233	233	225	459	248	441
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.84	0.84	0.84	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.8	18.9	18.9	50.5	27.3	22.5	43.6	45.6	45.8	43.1	41.5	39.7
Incr Delay (d2), s/veh	6.3	1.3	1.3	10.8	2.7	1.2	4.3	15.1	17.2	1.7	0.2	435.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	9.7	10.1	10.3	5.2	16.3	6.3	4.3	8.8	9.0	3.3	0.4	97.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.1	20.2	20.2	61.4	30.1	23.7	47.9	60.8	63.0	44.9	41.8	475.6
LnGrp LOS	D	C	C	E	C	C	D	E	E	D	D	F
Approach Vol, veh/h		1165			1252			403			1010	
Approach Delay, s/veh		31.8			31.5			59.0			411.6	
Approach LOS		C			C			E			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.1	57.9		20.0	20.7	49.3		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 14	45.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	7.7	16.9		16.6	15.1	26.9		11.8				
Green Ext Time (p_c), s	0.1	5.1		0.0	0.9	5.8		0.5				

Intersection Summary	
HCM 6th Ctrl Delay	134.7
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
User approved changes to right turn type.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	479	738	235	143	829	122	176	324	166	245	37	570
Future Volume (veh/h)	479	738	235	143	829	122	176	324	166	245	37	570
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	479	738	235	143	829	122	176	324	166	245	37	570
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	572	1188	378	172	1346	601	233	300	150	459	248	473
Arrive On Green	0.17	0.45	0.45	0.10	0.38	0.38	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	2651	844	1781	3554	1585	1781	2291	1149	3456	1870	1585
Grp Volume(v), veh/h	479	495	478	143	829	122	176	250	240	245	37	570
Grp Sat Flow(s),veh/h/ln	1728	1777	1718	1781	1777	1585	1781	1777	1664	1728	1870	1585
Q Serve(g_s), s	14.8	23.4	23.4	8.7	20.8	5.7	10.5	14.4	14.4	7.3	1.9	14.6
Cycle Q Clear(g_c), s	14.8	23.4	23.4	8.7	20.8	5.7	10.5	14.4	14.4	7.3	1.9	14.6
Prop In Lane	1.00		0.49	1.00		1.00	1.00		0.69	1.00		1.00
Lane Grp Cap(c), veh/h	572	796	770	172	1346	601	233	233	218	459	248	473
V/C Ratio(X)	0.84	0.62	0.62	0.83	0.62	0.20	0.75	1.07	1.10	0.53	0.15	1.21
Avail Cap(c_a), veh/h	669	796	770	199	1346	601	233	233	218	459	248	473
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.71	0.71	0.71	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.4	23.2	23.2	48.8	27.7	23.0	46.1	47.8	47.8	44.5	42.2	38.6
Incr Delay (d2), s/veh	7.2	2.6	2.7	22.5	2.1	0.8	20.1	79.9	91.5	4.4	1.3	111.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	10.5	14.6	14.2	8.6	14.0	4.1	9.9	17.6	17.8	6.1	1.8	38.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.7	25.8	25.9	71.4	29.8	23.7	66.2	127.7	139.3	48.9	43.5	149.6
LnGrp LOS	D	C	C	E	C	C	E	F	F	D	D	F
Approach Vol, veh/h		1452			1094			666			852	
Approach Delay, s/veh		34.4			34.5			115.6			116.0	
Approach LOS		C			C			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.3	54.7		20.0	22.9	47.1		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 12	47.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	10.7	25.4		16.6	16.8	22.8		16.4				
Green Ext Time (p_c), s	0.1	11.8		0.0	1.5	9.0		0.0				

Intersection Summary	
HCM 6th Ctrl Delay	64.8
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
User approved changes to right turn type.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	425	700	47	94	990	186	84	242	77	142	8	804
Future Volume (veh/h)	425	700	47	94	990	186	84	242	77	142	8	804
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	425	700	47	94	990	186	84	242	77	142	8	804
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	504	1614	108	119	1417	632	233	349	109	459	248	441
Arrive On Green	0.15	0.48	0.48	0.07	0.40	0.40	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	3380	227	1781	3554	1585	1781	2669	829	3456	1870	1585
Grp Volume(v), veh/h	425	368	379	94	990	186	84	159	160	142	8	804
Grp Sat Flow(s),veh/h/ln	1728	1777	1830	1781	1777	1585	1781	1777	1721	1728	1870	1585
Q Serve(g_s), s	13.2	15.0	15.0	5.7	25.5	8.8	4.7	9.4	9.8	4.1	0.4	14.6
Cycle Q Clear(g_c), s	13.2	15.0	15.0	5.7	25.5	8.8	4.7	9.4	9.8	4.1	0.4	14.6
Prop In Lane	1.00		0.12	1.00		1.00	1.00		0.48	1.00		1.00
Lane Grp Cap(c), veh/h	504	848	874	119	1417	632	233	233	225	459	248	441
V/C Ratio(X)	0.84	0.43	0.43	0.79	0.70	0.29	0.36	0.68	0.71	0.31	0.03	1.82
Avail Cap(c_a), veh/h	669	848	874	232	1417	632	233	233	225	459	248	441
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.83	0.83	0.83	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.8	18.9	18.9	50.5	27.6	22.5	43.6	45.6	45.8	43.1	41.5	39.7
Incr Delay (d2), s/veh	6.3	1.3	1.3	10.8	2.9	1.2	4.3	15.1	17.2	1.7	0.2	378.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	9.7	10.1	10.4	5.2	16.7	6.3	4.3	8.8	9.0	3.3	0.4	86.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.1	20.3	20.2	61.4	30.4	23.7	47.9	60.8	63.0	44.9	41.8	418.2
LnGrp LOS	D	C	C	E	C	C	D	E	E	D	D	F
Approach Vol, veh/h		1172			1270			403			954	
Approach Delay, s/veh		31.8			31.7			59.0			359.5	
Approach LOS		C			C			E			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.1	57.9		20.0	20.7	49.3		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 14	45.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	7.7	17.0		16.6	15.2	27.5		11.8				
Green Ext Time (p_c), s	0.1	5.2		0.0	0.9	5.6		0.5				

Intersection Summary	
HCM 6th Ctrl Delay	116.9
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
User approved changes to right turn type.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	447	760	235	143	851	122	176	324	166	245	37	613
Future Volume (veh/h)	447	760	235	143	851	122	176	324	166	245	37	613
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	447	760	235	143	851	122	176	324	166	245	37	613
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	545	1198	370	172	1375	613	233	300	150	459	248	460
Arrive On Green	0.16	0.45	0.45	0.10	0.39	0.39	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	2672	826	1781	3554	1585	1781	2291	1149	3456	1870	1585
Grp Volume(v), veh/h	447	505	490	143	851	122	176	250	240	245	37	613
Grp Sat Flow(s),veh/h/ln	1728	1777	1722	1781	1777	1585	1781	1777	1664	1728	1870	1585
Q Serve(g_s), s	13.8	24.1	24.1	8.7	21.2	5.6	10.5	14.4	14.4	7.3	1.9	14.6
Cycle Q Clear(g_c), s	13.8	24.1	24.1	8.7	21.2	5.6	10.5	14.4	14.4	7.3	1.9	14.6
Prop In Lane	1.00		0.48	1.00		1.00	1.00		0.69	1.00		1.00
Lane Grp Cap(c), veh/h	545	796	772	172	1375	613	233	233	218	459	248	460
V/C Ratio(X)	0.82	0.63	0.63	0.83	0.62	0.20	0.75	1.07	1.10	0.53	0.15	1.33
Avail Cap(c_a), veh/h	669	796	772	199	1375	613	233	233	218	459	248	460
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.71	0.71	0.71	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.8	23.4	23.4	48.8	27.2	22.4	46.1	47.8	47.8	44.5	42.2	39.0
Incr Delay (d2), s/veh	6.4	2.7	2.8	22.5	2.1	0.7	20.1	79.9	91.5	4.4	1.3	163.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	9.8	14.9	14.6	8.6	14.3	4.0	9.9	17.6	17.8	6.1	1.8	48.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.2	26.1	26.2	71.4	29.3	23.1	66.2	127.7	139.3	48.9	43.5	202.6
LnGrp LOS	D	C	C	E	C	C	E	F	F	D	D	F
Approach Vol, veh/h		1442			1116			666			895	
Approach Delay, s/veh		33.9			34.0			115.6			154.0	
Approach LOS		C			C			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.3	54.7		20.0	22.0	48.0		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 12	47.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	10.7	26.1		16.6	15.8	23.2		16.4				
Green Ext Time (p_c), s	0.1	11.9		0.0	1.6	9.0		0.0				

Intersection Summary	
HCM 6th Ctrl Delay	73.2
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
User approved changes to right turn type.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	445	745	48	96	1030	190	96	247	79	145	8	877
Future Volume (veh/h)	445	745	48	96	1030	190	96	247	79	145	8	877
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	445	745	48	96	1030	190	96	247	79	145	8	877
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	523	1614	104	122	1398	623	233	349	109	459	248	450
Arrive On Green	0.15	0.48	0.48	0.07	0.39	0.39	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	3390	218	1781	3554	1585	1781	2665	832	3456	1870	1585
Grp Volume(v), veh/h	445	390	403	96	1030	190	96	163	163	145	8	877
Grp Sat Flow(s),veh/h/ln	1728	1777	1831	1781	1777	1585	1781	1777	1721	1728	1870	1585
Q Serve(g_s), s	13.8	16.2	16.2	5.8	27.2	9.1	5.4	9.6	10.0	4.2	0.4	14.6
Cycle Q Clear(g_c), s	13.8	16.2	16.2	5.8	27.2	9.1	5.4	9.6	10.0	4.2	0.4	14.6
Prop In Lane	1.00		0.12	1.00		1.00	1.00		0.48	1.00		1.00
Lane Grp Cap(c), veh/h	523	846	872	122	1398	623	233	233	225	459	248	450
V/C Ratio(X)	0.85	0.46	0.46	0.79	0.74	0.30	0.41	0.70	0.73	0.32	0.03	1.95
Avail Cap(c_a), veh/h	669	846	872	232	1398	623	233	233	225	459	248	450
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.81	0.81	0.81	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.5	19.3	19.3	50.5	28.5	23.0	43.9	45.7	45.9	43.2	41.5	39.4
Incr Delay (d2), s/veh	6.9	1.5	1.4	10.7	3.5	1.3	5.3	16.1	18.4	1.8	0.2	434.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	10.1	10.8	11.1	5.3	17.7	6.5	4.9	9.0	9.2	3.4	0.4	99.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.3	20.8	20.8	61.2	32.0	24.3	49.2	61.8	64.3	45.0	41.8	474.2
LnGrp LOS	D	C	C	E	C	C	D	E	E	D	D	F
Approach Vol, veh/h		1238			1316			422			1030	
Approach Delay, s/veh		32.1			33.0			59.9			410.4	
Approach LOS		C			C			E			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.2	57.8		20.0	21.3	48.7		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 14	45.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	7.8	18.2		16.6	15.8	29.2		12.0				
Green Ext Time (p_c), s	0.1	5.5		0.0	0.8	5.2		0.5				

Intersection Summary	
HCM 6th Ctrl Delay	132.6
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
User approved changes to right turn type.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	499	786	240	146	878	124	191	331	169	250	38	581
Future Volume (veh/h)	499	786	240	146	878	124	191	331	169	250	38	581
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	499	786	240	146	878	124	191	331	169	250	38	581
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	589	1197	366	175	1330	593	233	300	150	459	248	480
Arrive On Green	0.17	0.45	0.45	0.10	0.37	0.37	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	2681	819	1781	3554	1585	1781	2293	1147	3456	1870	1585
Grp Volume(v), veh/h	499	521	505	146	878	124	191	255	245	250	38	581
Grp Sat Flow(s),veh/h/ln	1728	1777	1723	1781	1777	1585	1781	1777	1664	1728	1870	1585
Q Serve(g_s), s	15.4	25.2	25.3	8.9	22.6	5.8	11.5	14.4	14.4	7.4	2.0	14.6
Cycle Q Clear(g_c), s	15.4	25.2	25.3	8.9	22.6	5.8	11.5	14.4	14.4	7.4	2.0	14.6
Prop In Lane	1.00		0.48	1.00		1.00	1.00		0.69	1.00		1.00
Lane Grp Cap(c), veh/h	589	793	769	175	1330	593	233	233	218	459	248	480
V/C Ratio(X)	0.85	0.66	0.66	0.84	0.66	0.21	0.82	1.10	1.13	0.55	0.15	1.21
Avail Cap(c_a), veh/h	669	793	769	199	1330	593	233	233	218	459	248	480
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	23.8	23.8	48.7	28.6	23.4	46.5	47.8	47.8	44.6	42.2	38.3
Incr Delay (d2), s/veh	7.5	2.9	2.9	23.3	2.6	0.8	26.4	87.0	98.7	4.6	1.3	112.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	10.8	15.4	15.0	8.7	15.1	4.2	11.0	18.3	18.5	6.3	1.8	39.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.7	26.7	26.8	72.0	31.2	24.2	72.9	134.8	146.5	49.2	43.5	150.7
LnGrp LOS	D	C	C	E	C	C	E	F	F	D	D	F
Approach Vol, veh/h		1525			1148			691			869	
Approach Delay, s/veh		34.9			35.6			121.9			116.8	
Approach LOS		C			D			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.5	54.5		20.0	23.4	46.6		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 12	47.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	10.9	27.3		16.6	17.4	24.6		16.4				
Green Ext Time (p_c), s	0.0	11.8		0.0	1.3	8.7		0.0				

Intersection Summary	
HCM 6th Ctrl Delay	66.1
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
User approved changes to right turn type.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	446	751	48	96	1048	190	96	247	79	145	8	821
Future Volume (veh/h)	446	751	48	96	1048	190	96	247	79	145	8	821
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	446	751	48	96	1048	190	96	247	79	145	8	821
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	544	1615	103	122	1376	614	233	349	109	459	248	460
Arrive On Green	0.16	0.48	0.48	0.07	0.39	0.39	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	3392	217	1781	3554	1585	1781	2665	832	3456	1870	1585
Grp Volume(v), veh/h	446	393	406	96	1048	190	96	163	163	145	8	821
Grp Sat Flow(s),veh/h/ln	1728	1777	1831	1781	1777	1585	1781	1777	1721	1728	1870	1585
Q Serve(g_s), s	13.7	16.4	16.4	5.8	28.2	9.2	5.4	9.6	10.0	4.2	0.4	14.6
Cycle Q Clear(g_c), s	13.7	16.4	16.4	5.8	28.2	9.2	5.4	9.6	10.0	4.2	0.4	14.6
Prop In Lane	1.00		0.12	1.00		1.00	1.00		0.48	1.00		1.00
Lane Grp Cap(c), veh/h	544	846	872	122	1376	614	233	233	225	459	248	460
V/C Ratio(X)	0.82	0.46	0.47	0.79	0.76	0.31	0.41	0.70	0.73	0.32	0.03	1.79
Avail Cap(c_a), veh/h	669	846	872	232	1376	614	233	233	225	459	248	460
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.81	0.81	0.81	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.8	19.4	19.4	50.5	29.3	23.5	43.9	45.7	45.9	43.2	41.5	39.0
Incr Delay (d2), s/veh	7.2	1.5	1.4	10.7	4.0	1.3	5.3	16.1	18.4	1.8	0.2	362.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	10.1	10.9	11.1	5.3	18.4	6.6	4.9	9.0	9.2	3.4	0.4	87.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.0	20.9	20.8	61.2	33.3	24.8	49.2	61.8	64.3	45.0	41.8	401.0
LnGrp LOS	D	C	C	E	C	C	D	E	E	D	D	F
Approach Vol, veh/h		1245			1334			422			974	
Approach Delay, s/veh		32.0			34.1			59.9			345.1	
Approach LOS		C			C			E			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.2	57.8		20.0	22.0	48.0		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 14	45.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	7.8	18.4		16.6	15.7	30.2		12.0				
Green Ext Time (p_c), s	0.1	10.4		0.0	1.6	6.6		0.5				

Intersection Summary	
HCM 6th Ctrl Delay	112.4
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

User approved changes to right turn type.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	467	808	240	146	900	124	191	331	169	250	38	624
Future Volume (veh/h)	467	808	240	146	900	124	191	331	169	250	38	624
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	467	808	240	146	900	124	191	331	169	250	38	624
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	562	1206	358	175	1357	605	233	300	150	459	248	468
Arrive On Green	0.16	0.45	0.45	0.10	0.38	0.38	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	3456	2701	802	1781	3554	1585	1781	2293	1147	3456	1870	1585
Grp Volume(v), veh/h	467	531	517	146	900	124	191	255	245	250	38	624
Grp Sat Flow(s),veh/h/ln	1728	1777	1726	1781	1777	1585	1781	1777	1664	1728	1870	1585
Q Serve(g_s), s	14.4	26.0	26.0	8.9	23.1	5.8	11.5	14.4	14.4	7.4	2.0	14.6
Cycle Q Clear(g_c), s	14.4	26.0	26.0	8.9	23.1	5.8	11.5	14.4	14.4	7.4	2.0	14.6
Prop In Lane	1.00		0.46	1.00		1.00	1.00		0.69	1.00		1.00
Lane Grp Cap(c), veh/h	562	793	771	175	1357	605	233	233	218	459	248	468
V/C Ratio(X)	0.83	0.67	0.67	0.84	0.66	0.20	0.82	1.10	1.13	0.55	0.15	1.33
Avail Cap(c_a), veh/h	669	793	771	199	1357	605	233	233	218	459	248	468
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.68	0.68	0.68	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.6	24.0	24.0	48.7	28.1	22.8	46.5	47.8	47.8	44.6	42.2	38.8
Incr Delay (d2), s/veh	6.6	3.1	3.2	23.3	2.6	0.8	26.4	87.0	98.7	4.6	1.3	163.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	10.1	15.9	15.5	8.7	15.3	4.1	11.0	18.3	18.5	6.3	1.8	48.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.2	27.1	27.2	72.0	30.7	23.6	72.9	134.8	146.5	49.2	43.5	202.5
LnGrp LOS	D	C	C	E	C	C	E	F	F	D	D	F
Approach Vol, veh/h		1515			1170			691			912	
Approach Delay, s/veh		34.6			35.1			121.9			153.8	
Approach LOS		C			D			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.5	54.5		20.0	22.6	47.4		20.0				
Change Period (Y+Rc), s	* 4.7	5.4		5.4	* 4.7	5.4		5.6				
Max Green Setting (Gmax), s	* 12	47.6		14.6	* 21	38.6		14.4				
Max Q Clear Time (g_c+I1), s	10.9	28.0		16.6	16.4	25.1		16.4				
Green Ext Time (p_c), s	0.0	11.7		0.0	1.5	8.6		0.0				

Intersection Summary	
HCM 6th Ctrl Delay	74.1
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
User approved changes to right turn type.

Appendix M

Assembly Bill 52 Correspondence

City of Downey

October 11, 2022

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693
San Gabriel, CA, 91778
GTTribalcouncil@aol.com

Re: Formal Notification for the 9350 Hall Road Industrial Building Project, Pursuant to Assembly Bill 52

Dear Anthony Morales,

Pursuant to California Assembly Bill (AB) 52, the City of Downey (City) is providing you with formal notification of the 9350 Hall Road Industrial Building Project (project), located in the City of Downey, in Los Angeles County, California. The City of Downey, as lead agency, is reaching out to all groups that have requested AB 52 consultation in writing. The City received your request for formal notification of proposed projects within your Tribe's traditional use area. This correspondence is intended as formal notification of the proposed project pursuant to AB 52.

The present notice includes:

- A description of the proposed project and location;
- A summary of cultural resources work to date, and summary of associated information that can be made available upon request;
- A clear and definitive statement that the tribe has 30 days to request consultation; and
- The lead agency contact information.

Project Location and Description

The project site is located in the eastern portion of the City, which is located in the County of Los Angeles. Regionally, the City borders the cities of Pico Rivera, Santa Fe Springs, Norwalk, Bellflower, Paramount, South Gate, and Commerce. Locally, the project site is immediately bounded by Woodruff Avenue to the east, Stewart & Gray Road to the south, and Hall Road to the north. There are existing manufacturing uses to the east, west, and south. Commercial uses are located to the North and in close proximity to residential properties to the west. The project site consists of five parcels (Assessor's Parcel Numbers 6284-019-013, 6284-019-015, 6284-019-017, 6284-019-016, 6284-019-014). The addresses associated with the project site are 9350 Hall Rd, 9300 Hall Rd and 9363 Stewart and Gray Rd Downey, California 90241 (see attached Records Search Map). The 29-acre site currently consists of approximately 433,00 square feet of industrial buildings located directly west of Woodruff Avenue and north of Stewart and Gray Road.

The proposed scope includes the construction of an approximately 510,110-square-foot industrial tilt-up building for warehousing use. The project would include 614 parking spaces for passenger vehicles, 215 spaces for freight trucks, and 109 loading docks.

Project Involves Ground Disturbance: Yes

Summary of Cultural Resources Work and Documentation

Cultural resources documentation can be provided upon request. Please note, this information should be considered confidential and is not to be redistributed to individuals without traditional or cultural affiliation.

Consultation Request

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, or would like to request any additional information, please contact the City of Downey at the address below or via email to Alfonso Hernandez, Senior Planner, ashernandez@downeyca.org within 30 days of receipt of this notice with a formal request for consultation. Please include in this response the name of a designated lead contact person.

Sincerely,

Alfonso Hernandez
Senior Planner
City of Downey
11111 Brookshire Ave.
Downey, CA 90241

City of Downey

October 11, 2022

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490
Bellflower, CA, 90707
gtongva@gmail.com

Re: Formal Notification for the 9350 Hall Road Industrial Building Project, Pursuant to Assembly Bill 52

Dear Anthony Morales,

Pursuant to California Assembly Bill (AB) 52, the City of Downey (City) is providing you with formal notification of the 9350 Hall Road Industrial Building Project (project), located in the City of Downey, in Los Angeles County, California. The City of Downey, as lead agency, is reaching out to all groups that have requested AB 52 consultation in writing. The City received your request for formal notification of proposed projects within your Tribe's traditional use area. This correspondence is intended as formal notification of the proposed project pursuant to AB 52.

The present notice includes:

- A description of the proposed project and location;
- A summary of cultural resources work to date, and summary of associated information that can be made available upon request;
- A clear and definitive statement that the tribe has 30 days to request consultation; and
- The lead agency contact information.

Project Location and Description

The project site is located in the eastern portion of the City, which is located in the County of Los Angeles. Regionally, the City borders the cities of Pico Rivera, Santa Fe Springs, Norwalk, Bellflower, Paramount, South Gate, and Commerce. Locally, the project site is immediately bounded by Woodruff Avenue to the east, Stewart & Gray Road to the south, and Hall Road to the north. There are existing manufacturing uses to the east, west, and south. Commercial uses are located to the North and in close proximity to residential properties to the west. The project site consists of five parcels (Assessor's Parcel Numbers 6284-019-013, 6284-019-015, 6284-019-017, 6284-019-016, 6284-019-014). The addresses associated with the project site are 9350 Hall Rd, 9300 Hall Rd and 9363 Stewart and Gray Rd Downey, California 90241 (see attached Records Search Map). The 29-acre site currently consists of approximately 433,00 square feet of industrial buildings located directly west of Woodruff Avenue and north of Stewart and Gray Road.

The proposed scope includes the construction of an approximately 510,110-square-foot industrial tilt-up building for warehousing use. The project would include 614 parking spaces for passenger vehicles, 215 spaces for freight trucks, and 109 loading docks.

Project Involves Ground Disturbance: Yes

Summary of Cultural Resources Work and Documentation

Cultural resources documentation can be provided upon request. Please note, this information should be considered confidential and is not to be redistributed to individuals without traditional or cultural affiliation.

Consultation Request

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, or would like to request any additional information, please contact the City of Downey at the address below or via email to Alfonso Hernandez, Senior Planner, ashernandez@downeyca.org within 30 days of receipt of this notice with a formal request for consultation. Please include in this response the name of a designated lead contact person.

Sincerely,

Alfonso Hernandez
Senior Planner
City of Downey
11111 Brookshire Ave.
Downey, CA 90241

City of Downey

October 11, 2022

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231
Los Angeles, CA, 90012
sgoad@gabrielino-tongva.com

Re: Formal Notification for the 9350 Hall Road Industrial Building Project, Pursuant to Assembly Bill 52

Dear Anthony Morales,

Pursuant to California Assembly Bill (AB) 52, the City of Downey (City) is providing you with formal notification of the 9350 Hall Road Industrial Building Project (project), located in the City of Downey, in Los Angeles County, California. The City of Downey, as lead agency, is reaching out to all groups that have requested AB 52 consultation in writing. The City received your request for formal notification of proposed projects within your Tribe's traditional use area. This correspondence is intended as formal notification of the proposed project pursuant to AB 52.

The present notice includes:

- A description of the proposed project and location;
- A summary of cultural resources work to date, and summary of associated information that can be made available upon request;
- A clear and definitive statement that the tribe has 30 days to request consultation; and
- The lead agency contact information.

Project Location and Description

The project site is located in the eastern portion of the City, which is located in the County of Los Angeles. Regionally, the City borders the cities of Pico Rivera, Santa Fe Springs, Norwalk, Bellflower, Paramount, South Gate, and Commerce. Locally, the project site is immediately bounded by Woodruff Avenue to the east, Stewart & Gray Road to the south, and Hall Road to the north. There are existing manufacturing uses to the east, west, and south. Commercial uses are located to the North and in close proximity to residential properties to the west. The project site consists of five parcels (Assessor's Parcel Numbers 6284-019-013, 6284-019-015, 6284-019-017, 6284-019-016, 6284-019-014). The addresses associated with the project site are 9350 Hall Rd, 9300 Hall Rd and 9363 Stewart and Gray Rd Downey, California 90241 (see attached Records Search Map). The 29-acre site currently consists of approximately 433,00 square feet of industrial buildings located directly west of Woodruff Avenue and north of Stewart and Gray Road.

The proposed scope includes the construction of an approximately 510,110-square-foot industrial tilt-up building for warehousing use. The project would include 614 parking spaces for passenger vehicles, 215 spaces for freight trucks, and 109 loading docks.

Project Involves Ground Disturbance: Yes

Summary of Cultural Resources Work and Documentation

Cultural resources documentation can be provided upon request. Please note, this information should be considered confidential and is not to be redistributed to individuals without traditional or cultural affiliation.

Consultation Request

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, or would like to request any additional information, please contact the City of Downey at the address below or via email to Alfonso Hernandez, Senior Planner, ashernandez@downeyca.org within 30 days of receipt of this notice with a formal request for consultation. Please include in this response the name of a designated lead contact person.

Sincerely,

Alfonso Hernandez
Senior Planner
City of Downey
11111 Brookshire Ave.
Downey, CA 90241

City of Downey

October 11, 2022

Gabrielino-Tongva Tribe
Charles Alvarez
23454 Vanowen Street
West Hills, CA, 91307
roadkingcharles@aol.com

Re: Formal Notification for the 9350 Hall Road Industrial Building Project, Pursuant to Assembly Bill 52

Dear Anthony Morales,

Pursuant to California Assembly Bill (AB) 52, the City of Downey (City) is providing you with formal notification of the 9350 Hall Road Industrial Building Project (project), located in the City of Downey, in Los Angeles County, California. The City of Downey, as lead agency, is reaching out to all groups that have requested AB 52 consultation in writing. The City received your request for formal notification of proposed projects within your Tribe's traditional use area. This correspondence is intended as formal notification of the proposed project pursuant to AB 52.

The present notice includes:

- A description of the proposed project and location;
- A summary of cultural resources work to date, and summary of associated information that can be made available upon request;
- A clear and definitive statement that the tribe has 30 days to request consultation; and
- The lead agency contact information.

Project Location and Description

The project site is located in the eastern portion of the City, which is located in the County of Los Angeles. Regionally, the City borders the cities of Pico Rivera, Santa Fe Springs, Norwalk, Bellflower, Paramount, South Gate, and Commerce. Locally, the project site is immediately bounded by Woodruff Avenue to the east, Stewart & Gray Road to the south, and Hall Road to the north. There are existing manufacturing uses to the east, west, and south. Commercial uses are located to the North and in close proximity to residential properties to the west. The project site consists of five parcels (Assessor's Parcel Numbers 6284-019-013, 6284-019-015, 6284-019-017, 6284-019-016, 6284-019-014). The addresses associated with the project site are 9350 Hall Rd, 9300 Hall Rd and 9363 Stewart and Gray Rd Downey, California 90241 (see attached Records Search Map). The 29-acre site currently consists of approximately 433,00 square feet of industrial buildings located directly west of Woodruff Avenue and north of Stewart and Gray Road.

The proposed scope includes the construction of an approximately 510,110-square-foot industrial tilt-up building for warehousing use. The project would include 614 parking spaces for passenger vehicles, 215 spaces for freight trucks, and 109 loading docks.

Project Involves Ground Disturbance: Yes

Summary of Cultural Resources Work and Documentation

Cultural resources documentation can be provided upon request. Please note, this information should be considered confidential and is not to be redistributed to individuals without traditional or cultural affiliation.

Consultation Request

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, or would like to request any additional information, please contact the City of Downey at the address below or via email to Alfonso Hernandez, Senior Planner, ashernandez@downeyca.org within 30 days of receipt of this notice with a formal request for consultation. Please include in this response the name of a designated lead contact person.

Sincerely,

Alfonso Hernandez
Senior Planner
City of Downey
11111 Brookshire Ave.
Downey, CA 90241

GABRIELEÑO BAND OF MISSION INDIANS – KIZH NATION
California State Recognized Aboriginal Tribe of the Los Angeles Basin
(Historically known as the Gabrieleño Tribal Council - San Gabriel Band of Mission Indians)

Alfonso S. Hernandez
Senior Planner
Community Development Department
11111 Bookshire Ave, Downey, CA 90241

Re: PROPOSED MITIGATION MEASURES RE KIZH NATION TRIBAL CULTURAL RESOURCES

Dear Alfonso Hernandez,

Pursuant to California Assembly Bill 52 and/or Senate Bill 18 (and any/all other applicable Federal, State, and local laws), the *Gabrieleño Band of Mission Indians – Kizh Nation* ("Tribe" or "Kizh") requested to and did consult with the City of Downey (the "lead agency"), regarding 9350 Hall Rd. (the "Project"). As we explained, this Project site is located within the boundaries of Kizh ancestral territory.

As such, we discussed at length the adverse impacts of this Project on Kizh historical landscapes, ceremonial places, subsurface artifacts, and other Kizh tribal cultural resources ("TCR"). Significant, confidential information was shared, including *inter alia*, Kizh oral history, elder testimony, testimony by Kizh Certified Archaeologist, John Torres, data on Native American discoveries in proximity to the Project, historical information on Kizh cultural and historical uses of the area at and surrounding the Project site, historical maps, and relevant historical literature.

Collectively, this evidence substantiated the irreparable harm Kizh TCRs will sustain unless you adopt and enforce the proposed mitigations for this Project, which are attached hereto. Please ensure to maintain the confidentiality of all information the Kizh has provided, and any/all additional information the Kizh provides in the future. (Pub. Res. Code §21082.3(c).) The laws preserving the confidentiality of Native American documents and records prohibits the inclusion of any information about the location of Native American artifacts, sites, sacred lands, or any other information that is exempt from public disclosure

pursuant to the Public Records Act. (Cal. Code Regs. § 15120(d); Clover Valley Foundation v. City of Rocklin (2011) 197 Cal.App.4th 200, at p. 220).

Finally, as a reminder, CEQA requires lead agencies to evaluate a project's impacts to TCRs separate and apart from all other factors, such as cultural resources, archaeological, historical, and paleontological.[1] Moreover, the California Court of Appeal made clear in the 2020 published opinion, Save the Agoura Corndell Knoll v. City of Agoura Hills, et al. (2020) 46 Cal.App.5th 665, that upon adoption, it must be clear that the TCR mitigations adopted will sufficiently reduce the project's impacts to TCRs below the threshold of significance; otherwise, the mitigations do not comply with CEQA and cannot be enforced.[2] As you know, as lead agency, CEQA mandates you to oversee *and enforce* compliance with the mitigations and conditions of approval adopted for the Project, CEQA, and all applicable state and local laws. (Pub. Res. Code § 21081.6(a)(1) [The reporting or monitoring program shall be designed to ensure compliance during project implementation].)

Thank you for your anticipated cooperation. We look forward to working with you.

Sincerely,

Andrew Salas, Chairman
Gabrieleno Band of Mission Indians – Kizh Nation

_____

Enclosures

[1] Public Resources Code Section 21083.09 required the Office of Planning and Research to revise the CEQA guidelines to include separate consideration of tribal cultural resources.

[2] (*Id*. at pp. 685-6 ["[i]t is improper to defer the formulation of mitigation measures until after project approval; instead, the determination of whether a project will have significant environmental impacts, and the formulation of measures to mitigate those impacts, must occur before the project is approved."]; see also CEQA Guidelines §15126.4(a)(1)(B).)

GABRIELENO BAND OF MISSION INDIANS – KIZH NATION - PROPOSED TCR MITIGATION MEASURES

TCR-1: Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities

A. The project applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.
B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.
C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or "TCR"), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.
D. On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.
E. Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe's sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural and/or historic purposes.

TCR-2: Unanticipated Discovery of Human Remains and Associated Funerary Objects

A. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.
B. If Native American human remains and/or grave goods discovered or recognized on the project site, then all construction activities shall immediately cease. Health and Safety Code Section

7050.5 dictates that any discoveries of human skeletal material shall be immediately reported to the County Coroner and all ground-disturbing activities shall immediately halt and shall remain halted until the coroner has determined the nature of the remains. If the coroner recognizes the human remains to be those of a Native American or has reason to believe they are Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission, and Public Resources Code Section 5097.98 shall be followed.

C. Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).
D. Construction activities may resume in other parts of the project site at a minimum of 200 feet away from discovered human remains and/or burial goods, if the Kizh determines in its sole discretion that resuming construction activities at that distance is acceptable and provides the project manager express consent of that determination (along with any other mitigation measures the Kizh monitor and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5(f).)
E. Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods. Any historic archaeological material that is not Native American in origin (non-TCR) shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, it shall be offered to a local school or historical society in the area for educational purposes.
F. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

TCR-3: Procedures for Burials and Funerary Remains:

A. As the Most Likely Descendant ("MLD"), the Koo-nas-gna Burial Policy shall be implemented. To the Tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, Tribal Traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains.
B. If the discovery of human remains includes four or more burials, the discovery location shall be treated as a cemetery and a separate treatment plan shall be created.
C. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Cremations will either be removed in bulk or by means as necessary to ensure complete recovery of all sacred materials.
D. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The Tribe will make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that burials will be removed.
E. In the event preservation in place is not possible despite good faith efforts by the project

applicant/developer and/or landowner, before ground-disturbing activities may resume on the project site, the landowner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects.

F. Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the project site but at a location agreed upon between the Tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered.
G. The Tribe will work closely with the project's qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the Tribe, documentation shall be prepared and shall include (at a minimum) detailed descriptive notes and sketches. All data recovery data recovery-related forms of documentation shall be approved in advance by the Tribe. If any data recovery is performed, once complete, a final report shall be submitted to the Tribe and the NAHC. The Tribe does NOT authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains.

PLEASE NOTE THE FOLLOWING:

Any/all revisions to the Kizh's proposed TCR mitigations set forth above must be requested in writing, and not more than ten (10) calendar days from the date that we consulted on the subject Project. Requested revisions shall be delivered to the Kizh via email at admin@gabrielenoindians.org, and in a Word document, redline format. Please include as the email subject: "REQUEST FOR MITIGATION REVISIONS," and identify the project name and location/address. If revisions are not requested within 10 calendar days of consultation, the Kizh's proposed mitigations are presumed accepted as proposed (i.e., as set forth above).

Thank you for your anticipated cooperation.